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(FLOW PARTITIONING)

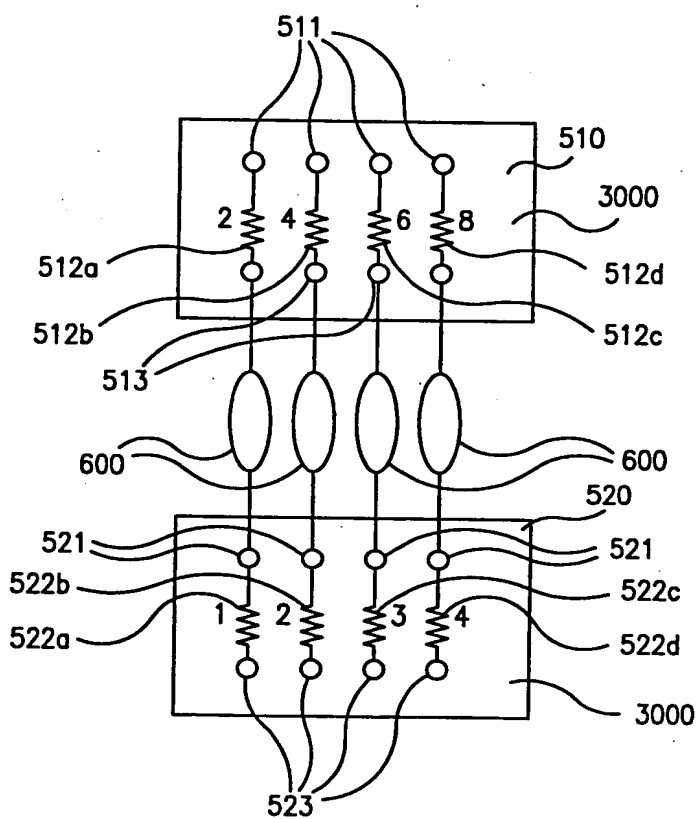


FIG. 1A

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(PRESSURE PARTITIONING)

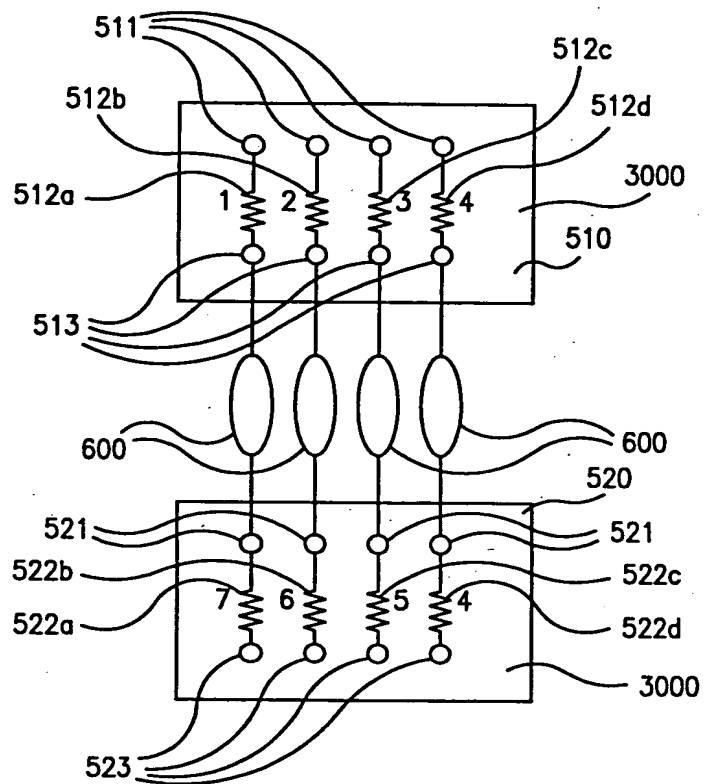


FIG. 1B

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(FLOW/PRESSURE PARTITIONING)

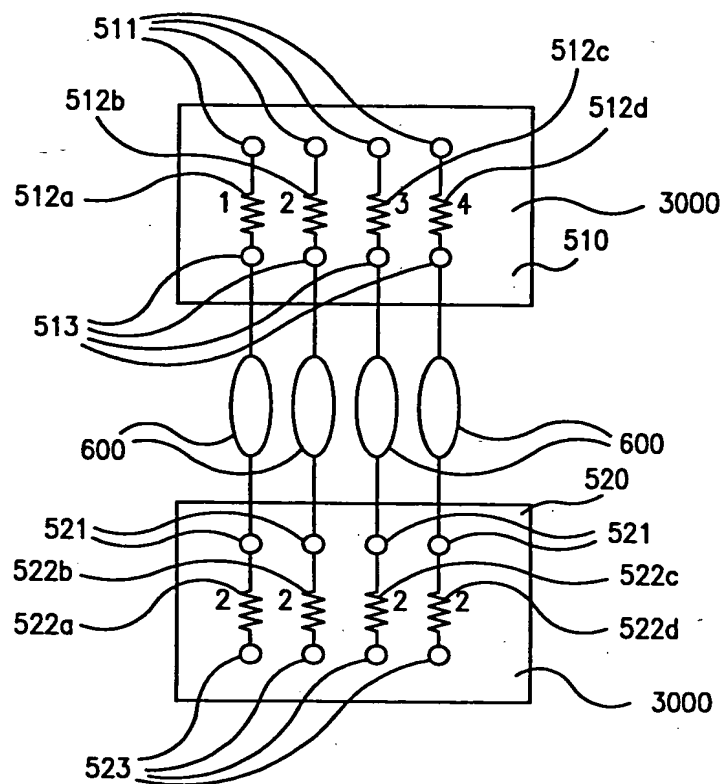


FIG. 1C

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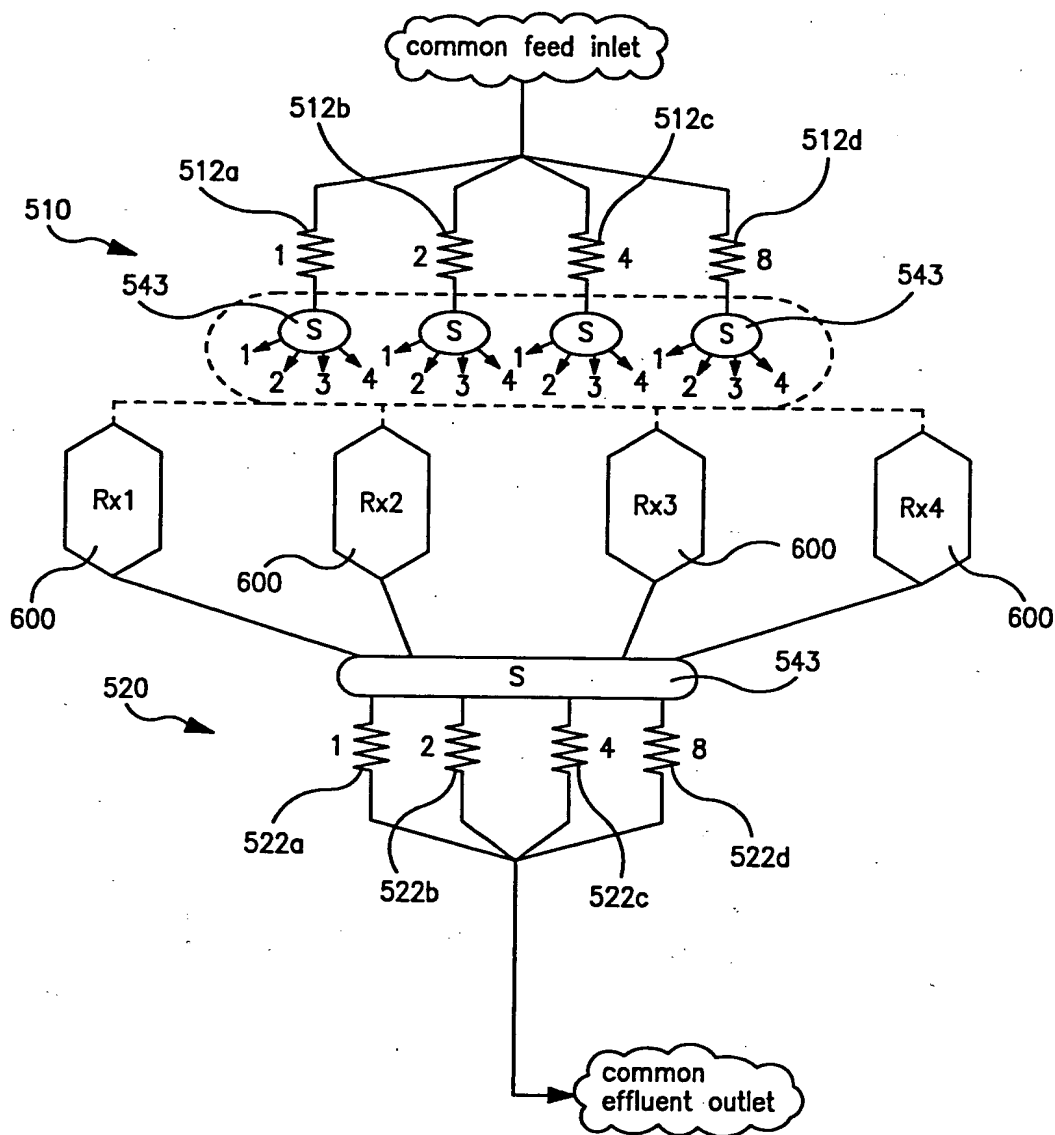


FIG. 2A

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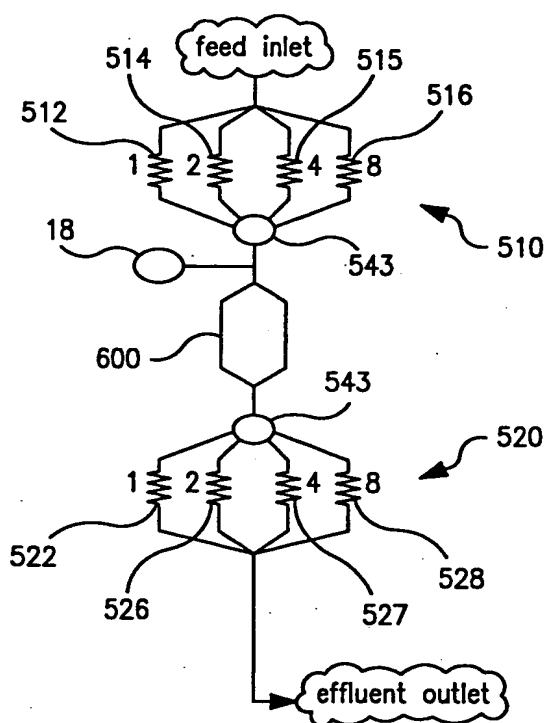


FIG. 2B

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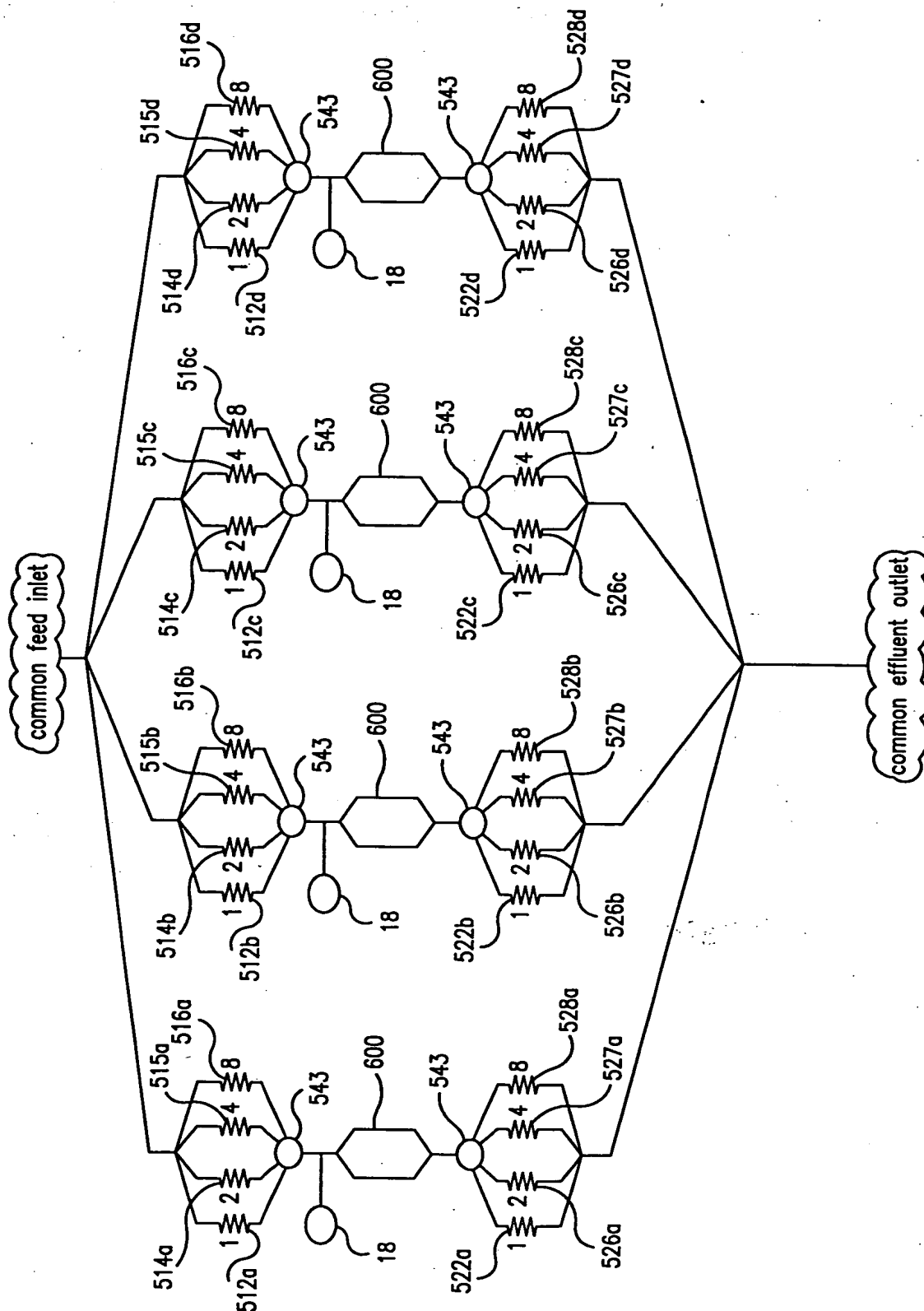


FIG. 2C

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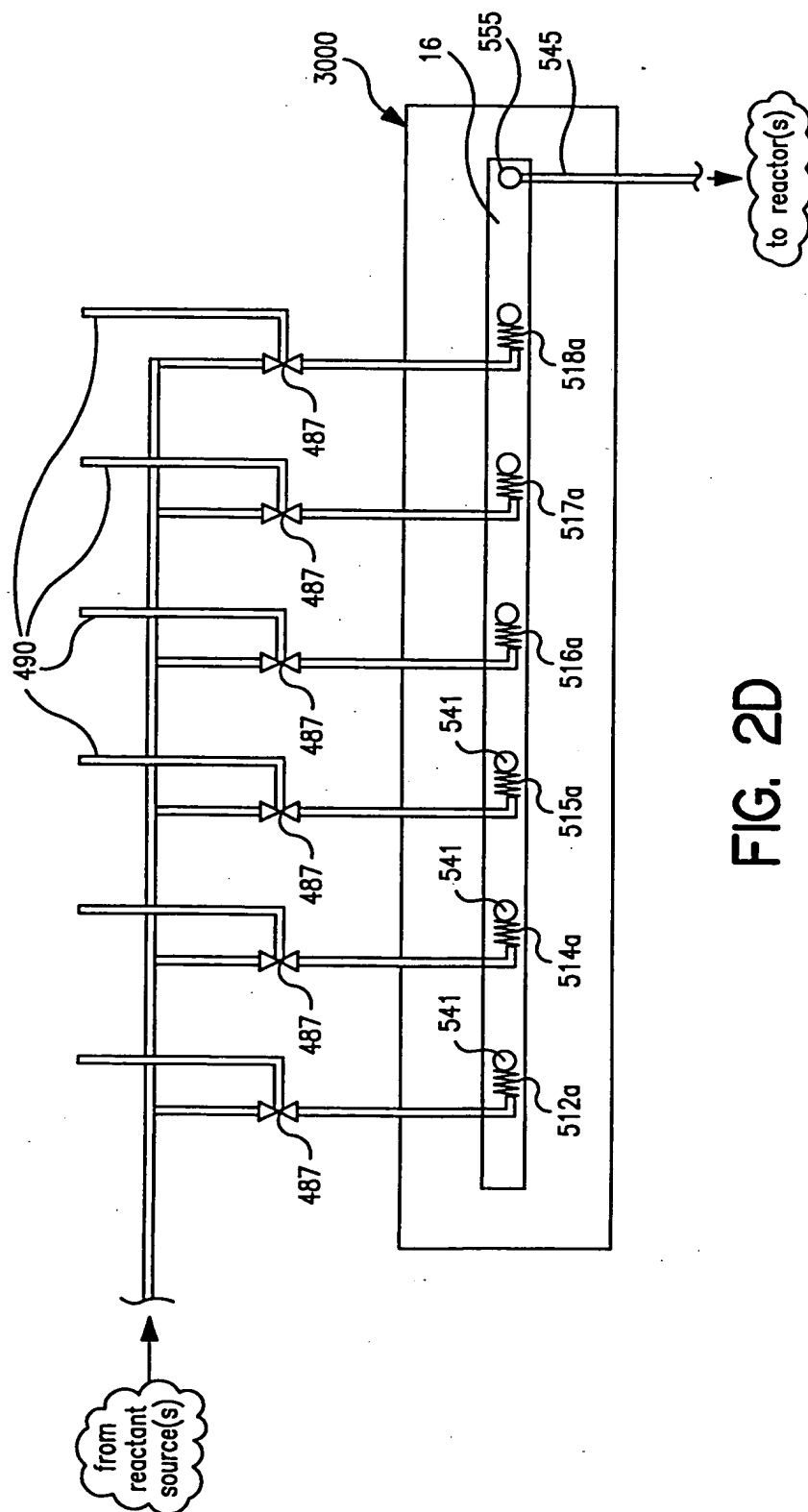


FIG. 2D

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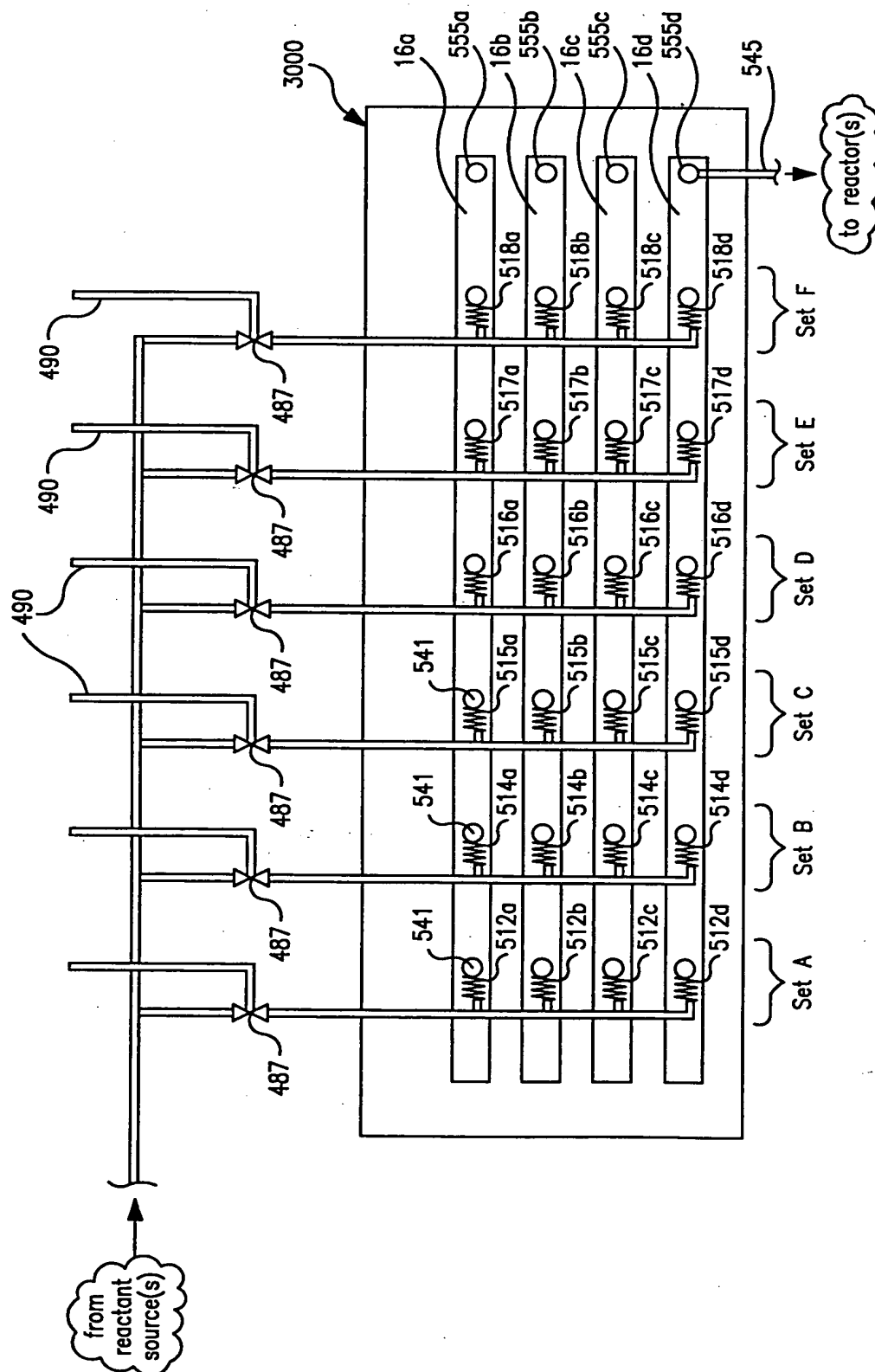


FIG. 2E



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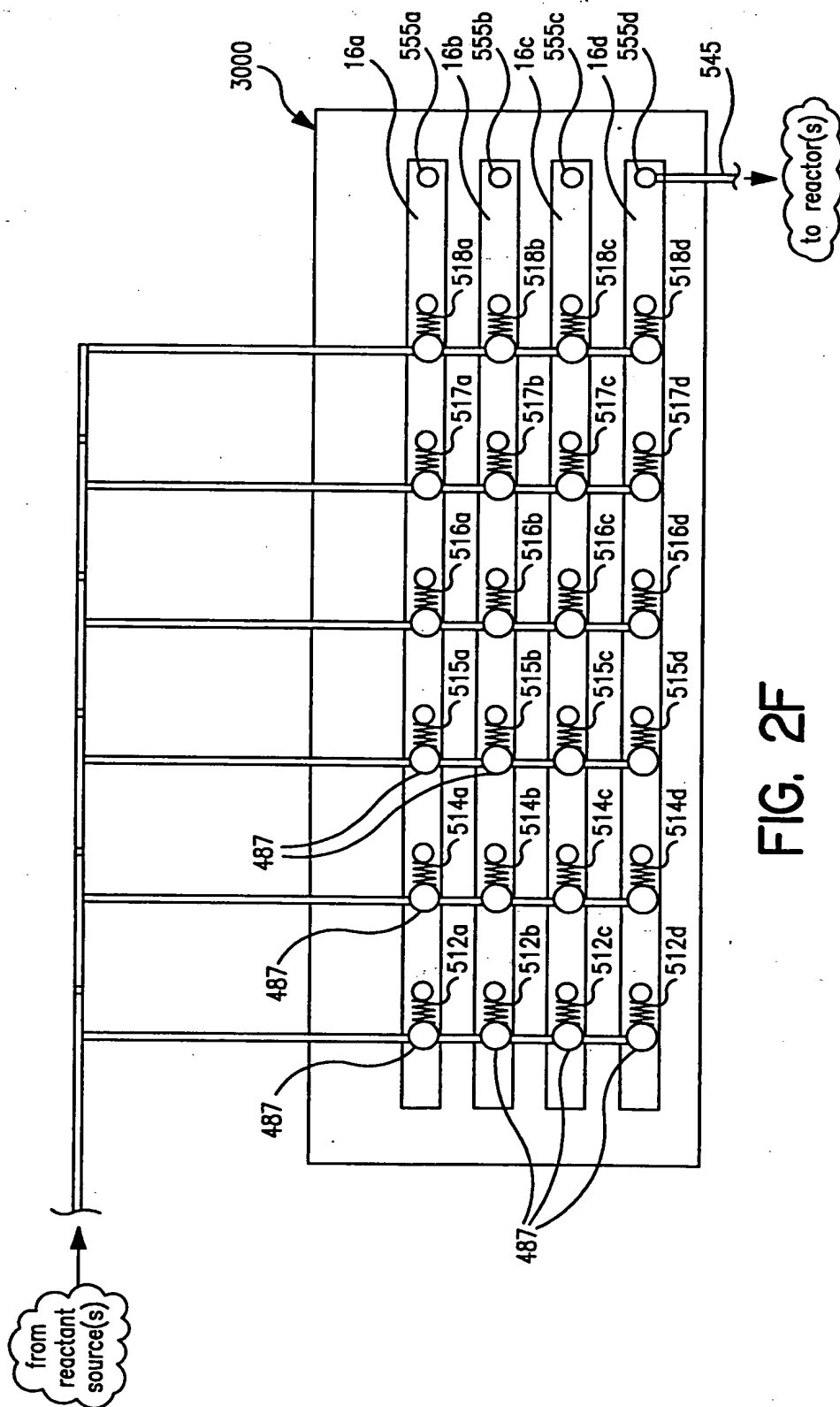


FIG. 2F

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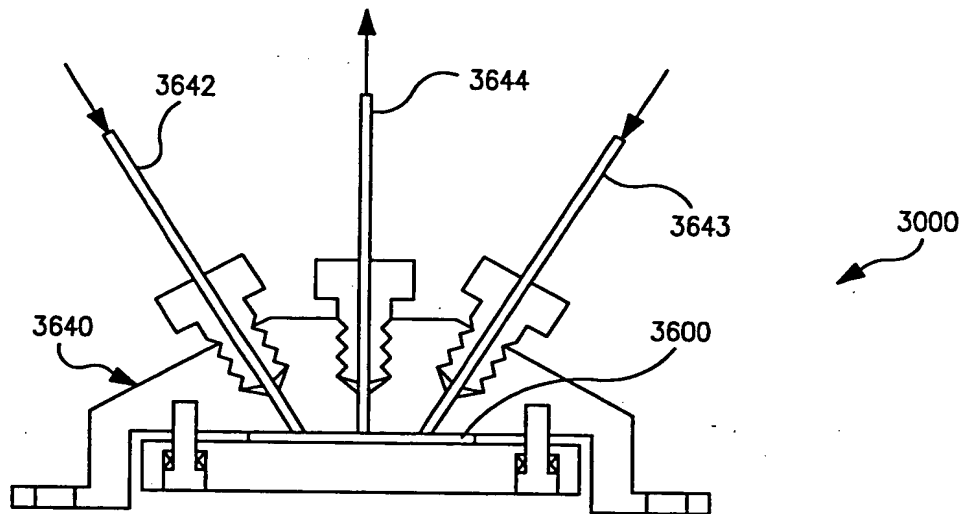


FIG. 3A

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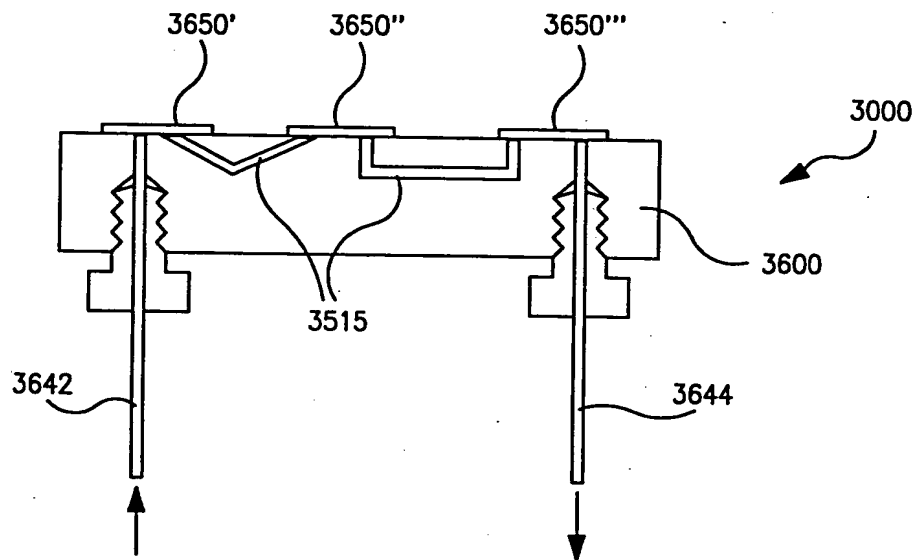


FIG. 3B

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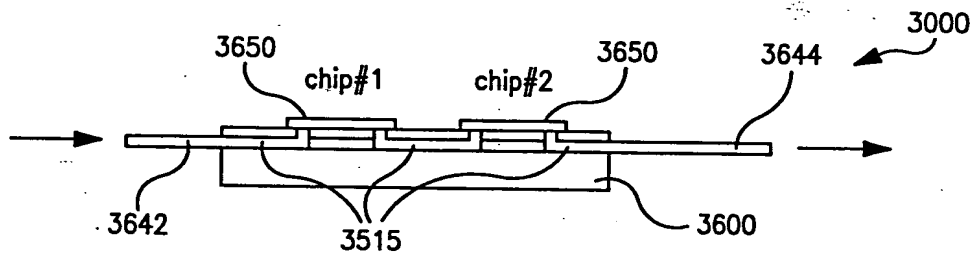


FIG. 3C

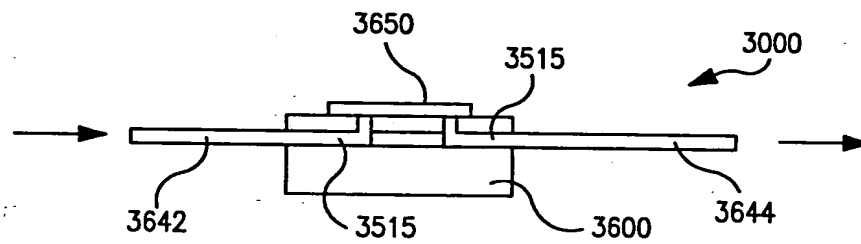


FIG. 3D

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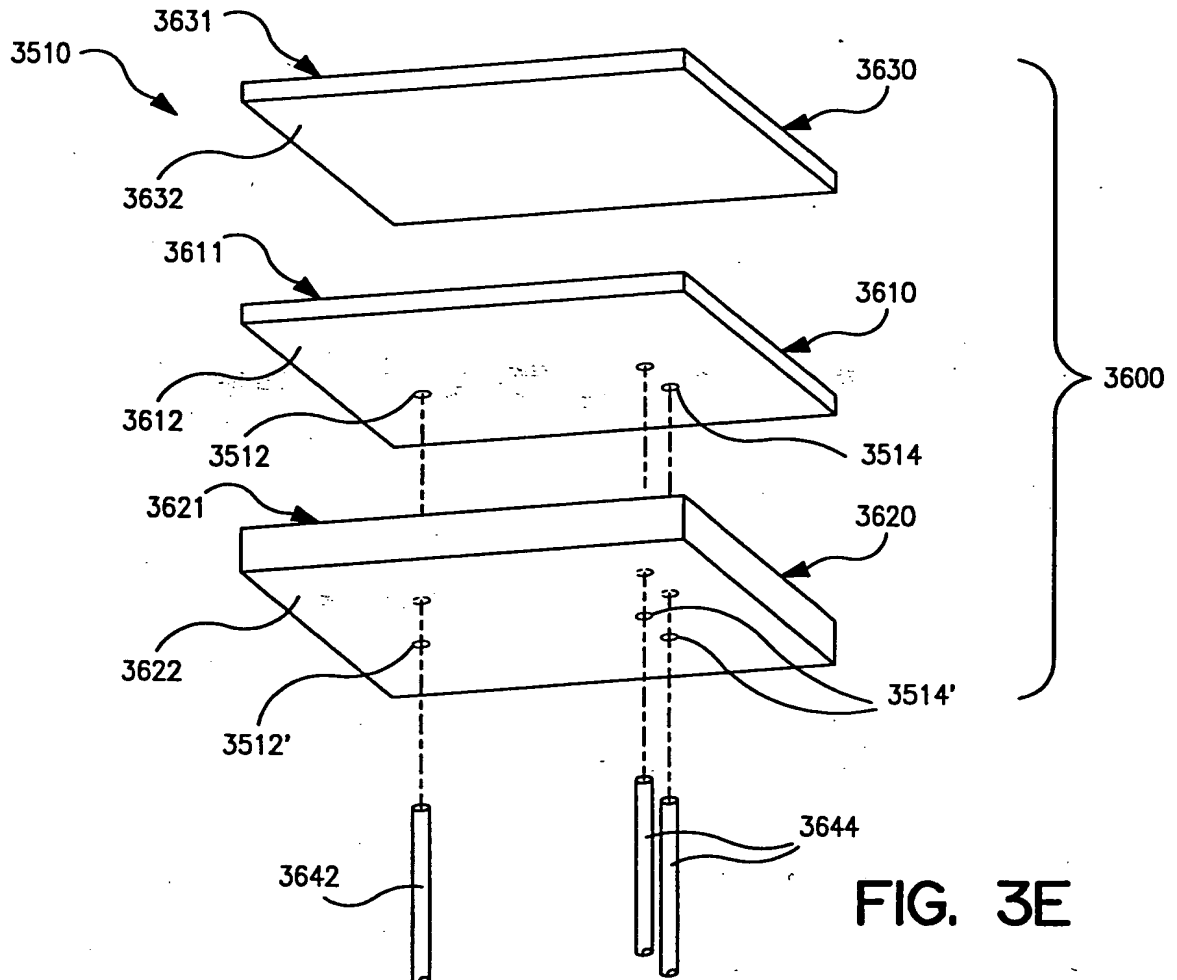


FIG. 3E

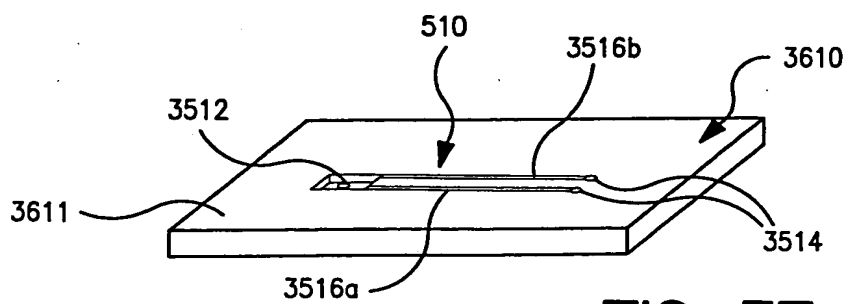


FIG. 3F

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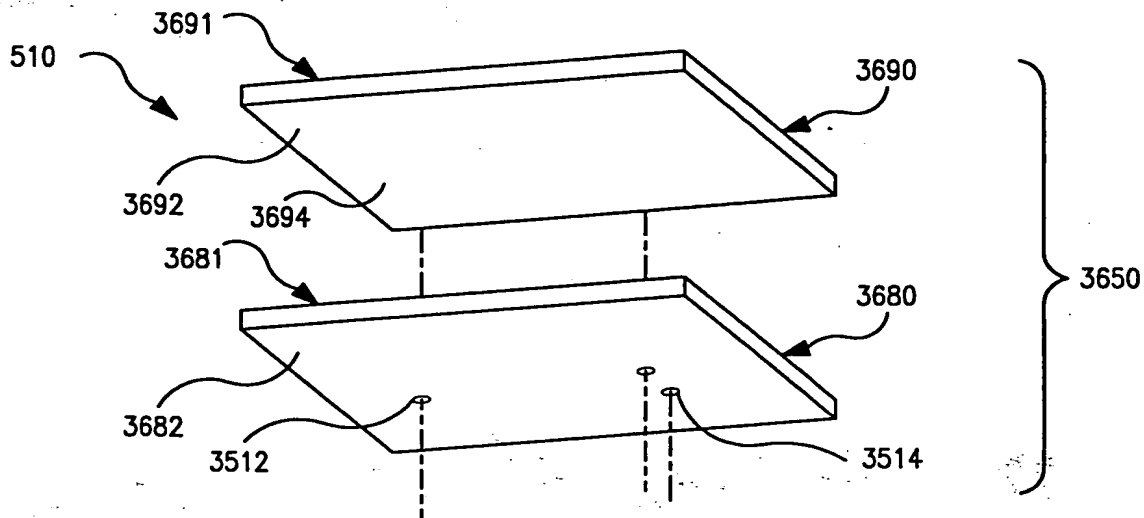


FIG. 3G

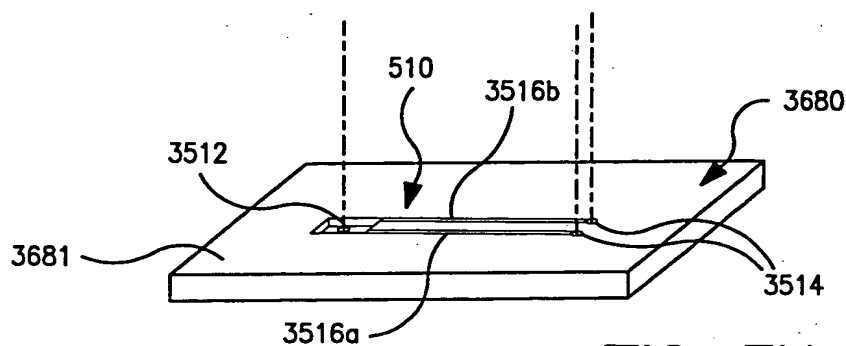


FIG. 3H

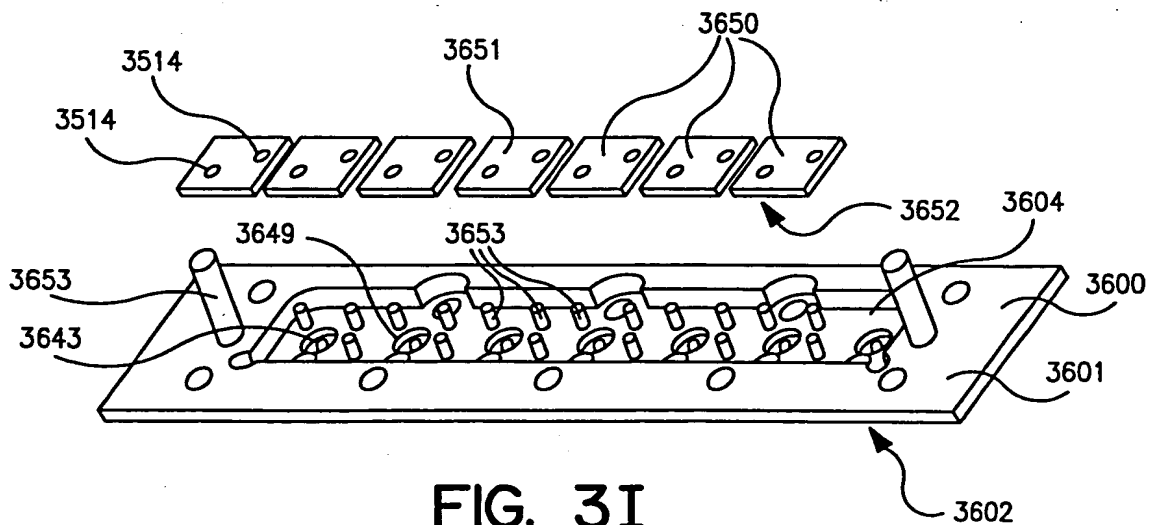


FIG. 3I

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FIG. 4A-1

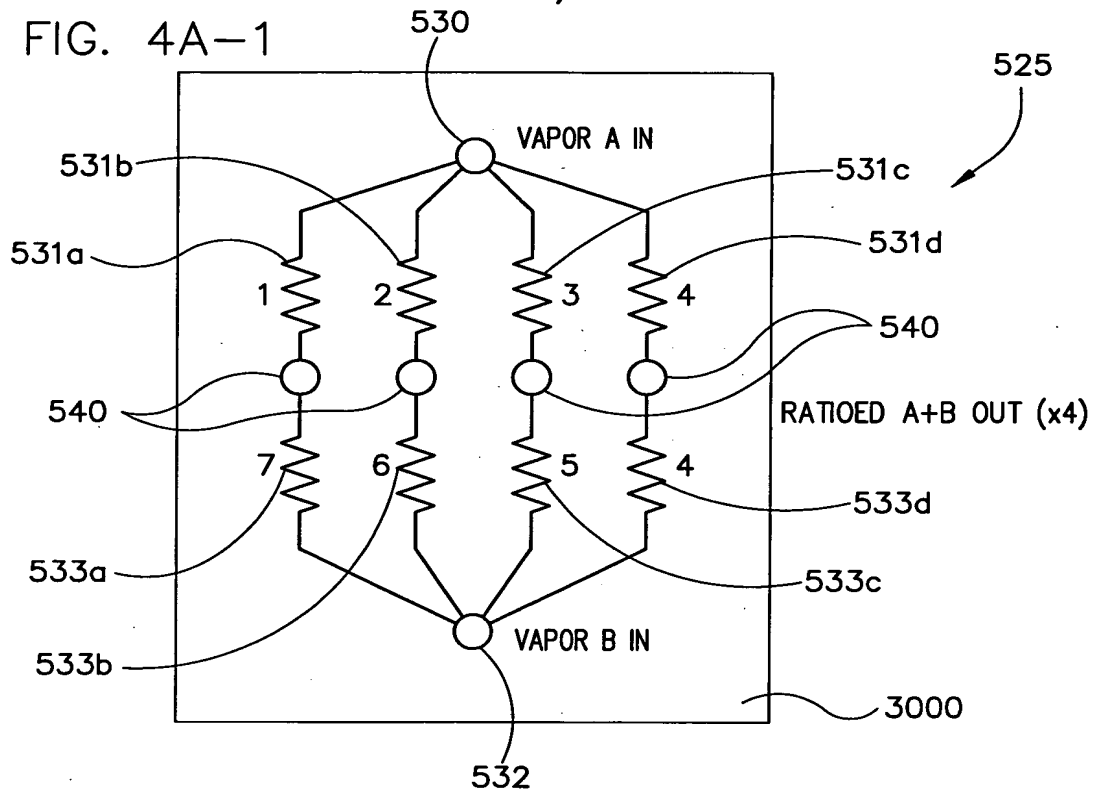
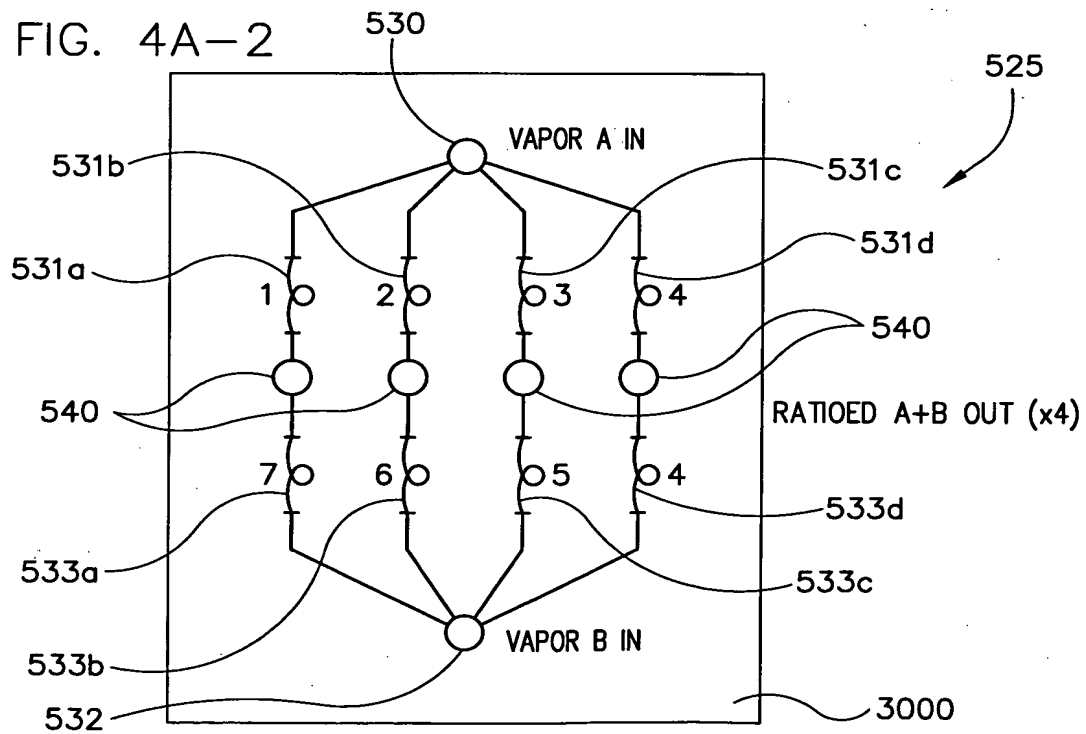


FIG. 4A-2



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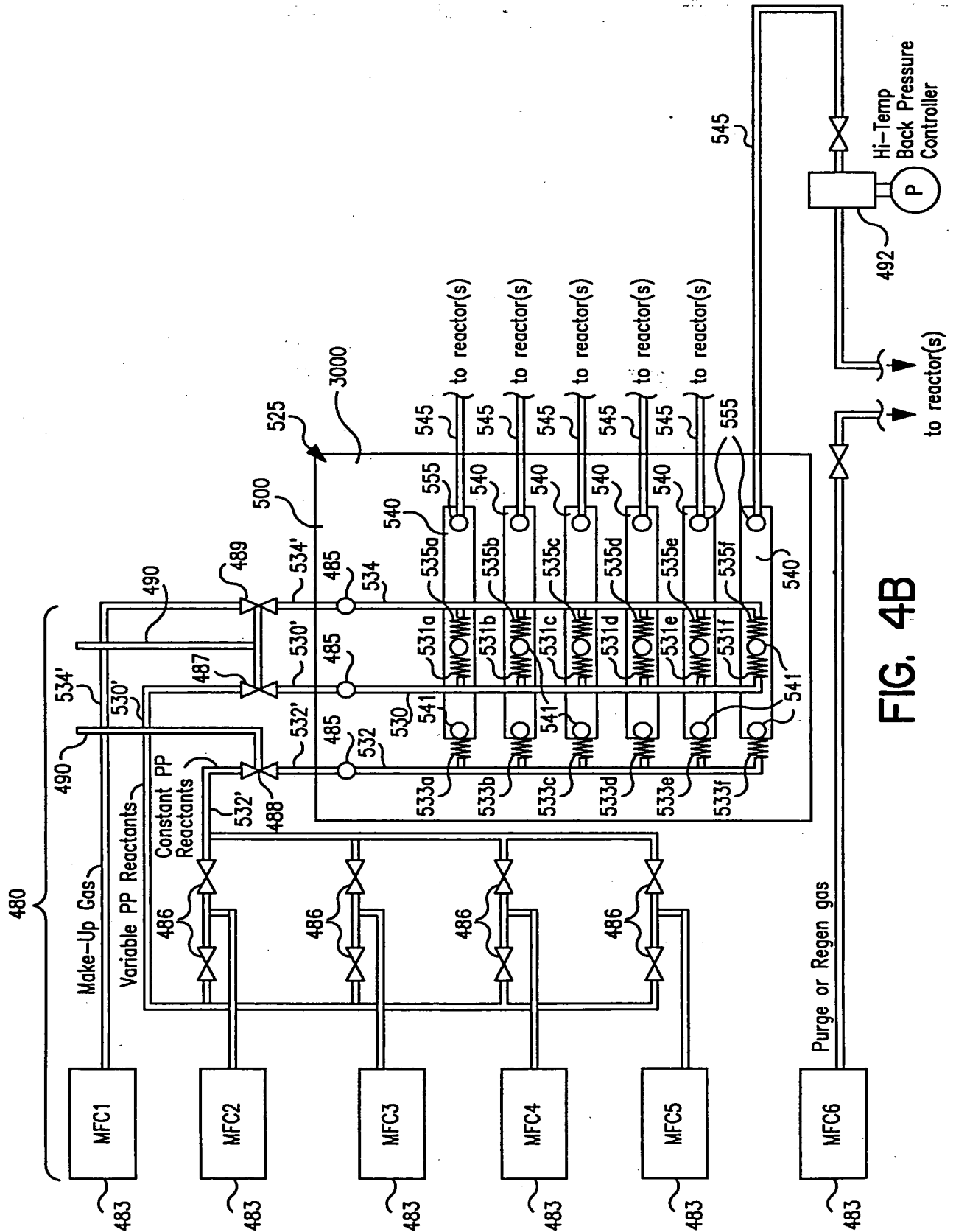


FIG. 4B



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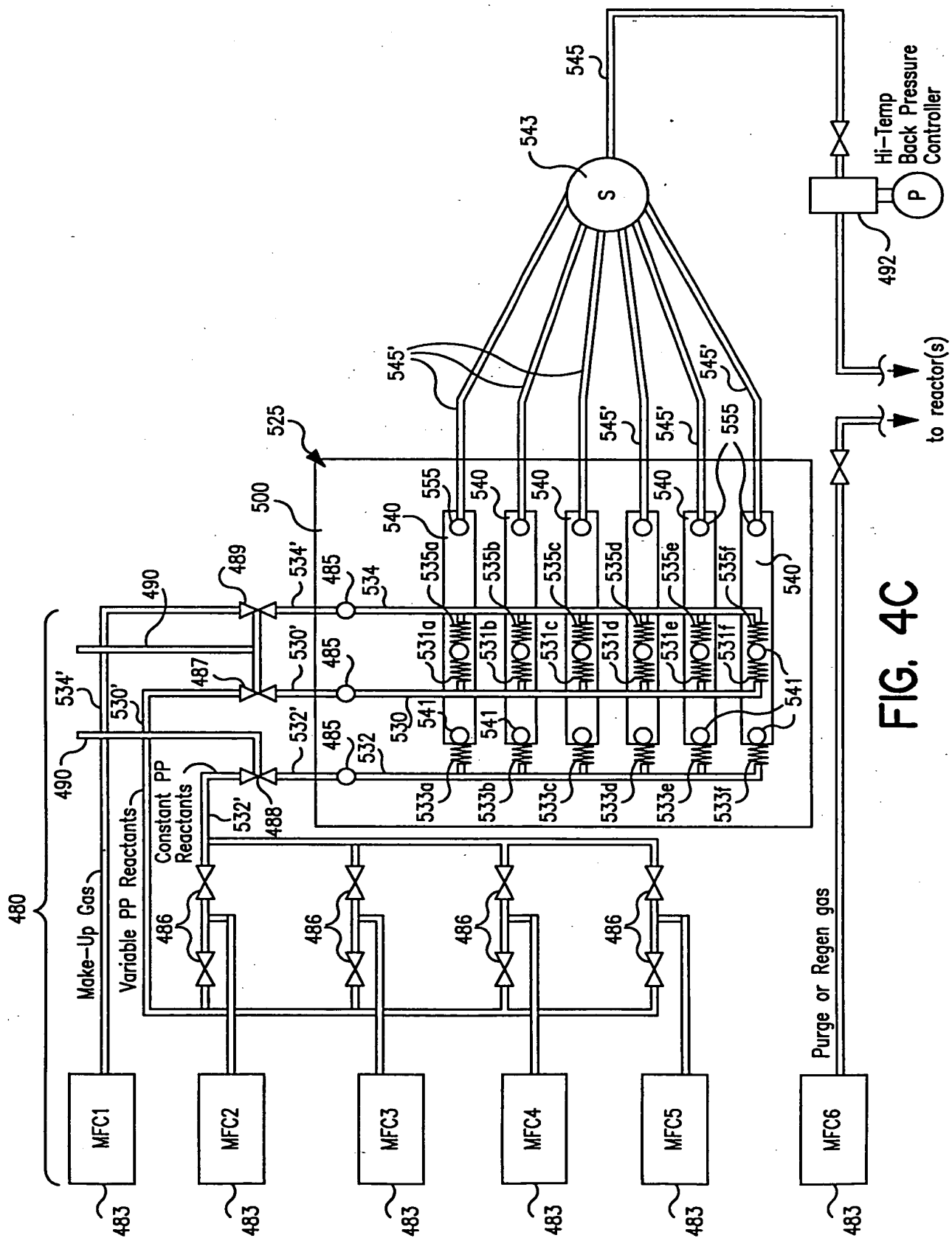


FIG. 4C

FIG. 4D is a schematic diagram of a reactor system. It features six feed streams, each controlled by a Mass Flow Controller (MFC1-MFC6) and a set of valves (486, 487, 489, 530, 531a-f, 534, 535a-f). The feed streams are labeled: Make-Up Gas, Variable PP Reactants, Constant PP Reactants, and four other streams. The system includes a Hi-Temp Back Pressure Controller (492) and a Purge or Regen gas stream. The diagram shows a complex network of pipes and valves, with various components labeled with reference numerals (e.g., 483, 486, 487, 489, 530, 531a-f, 534, 535a-f, 541, 542, 543, 544, 545, 555).

**FIG. 4D**

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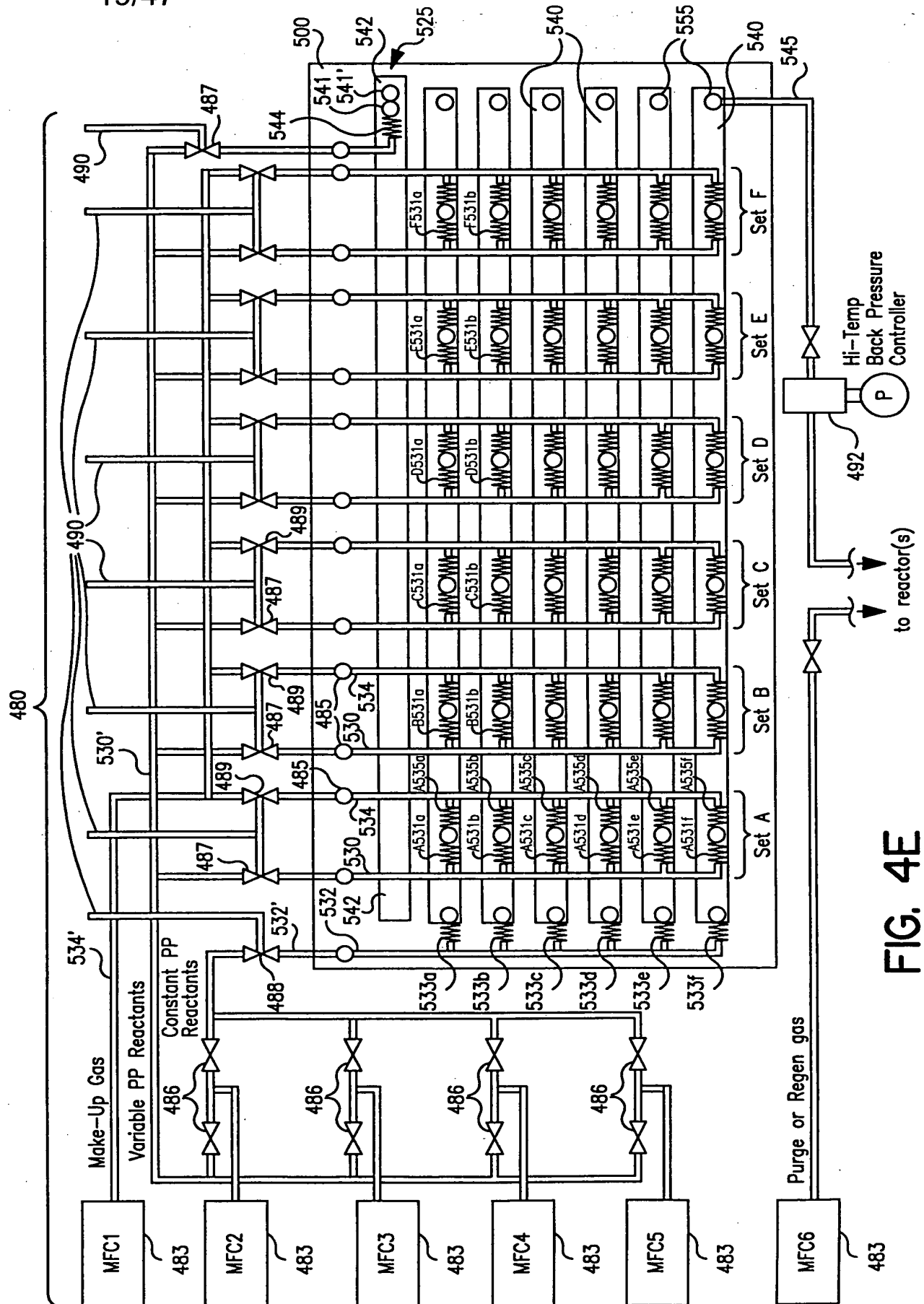


FIG. 4E

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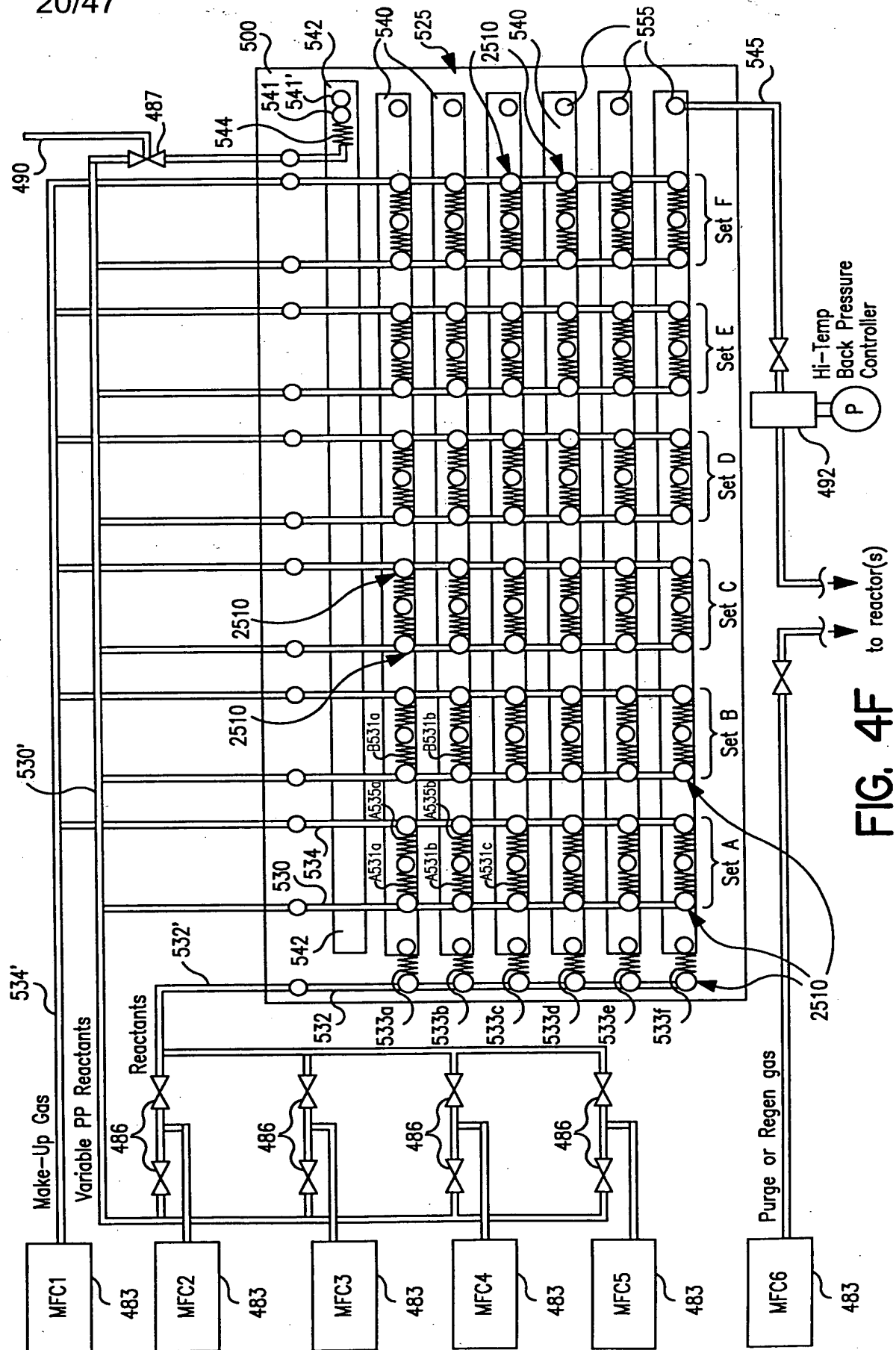


FIG. 4F

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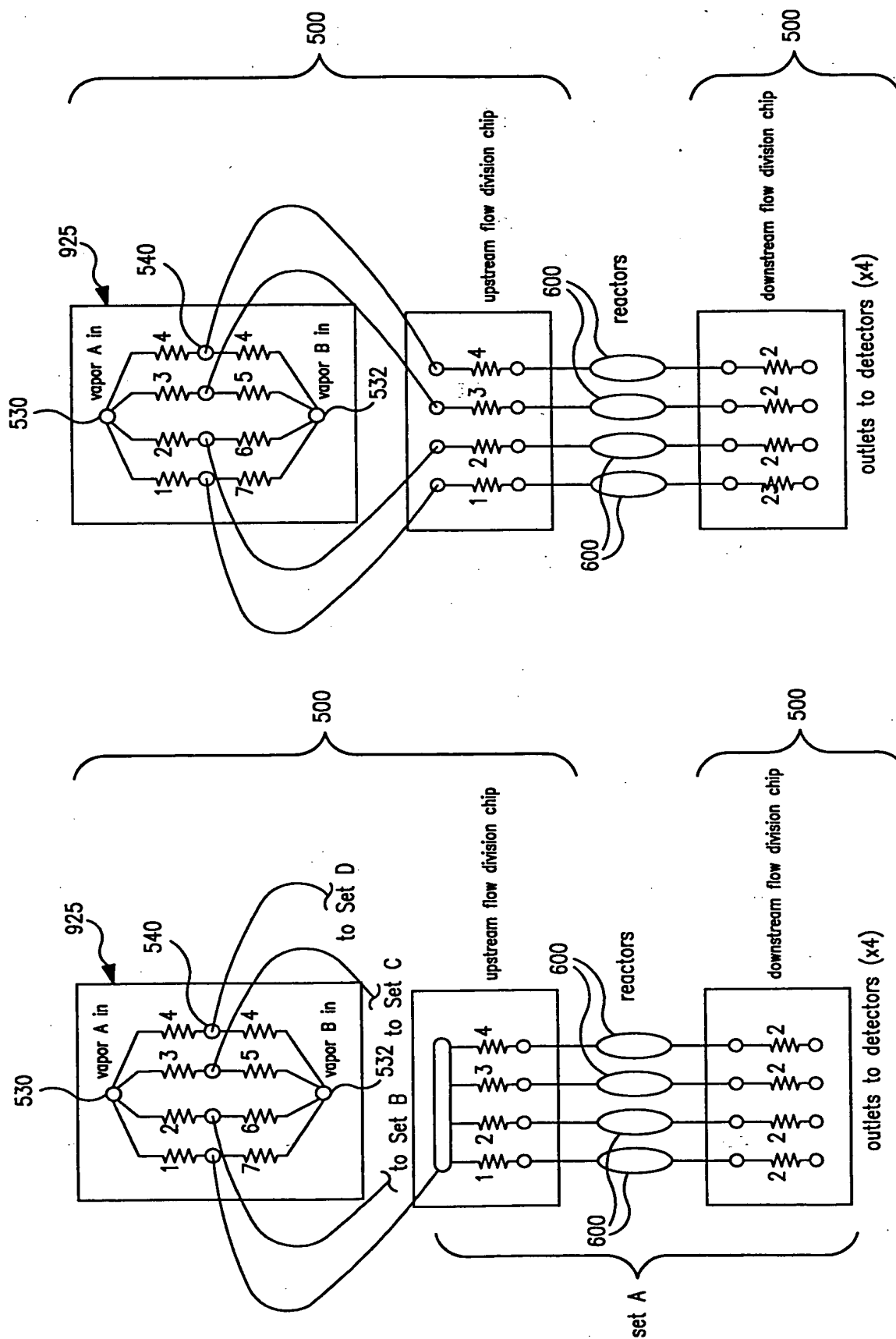


FIG. 5B

FIG. 5A

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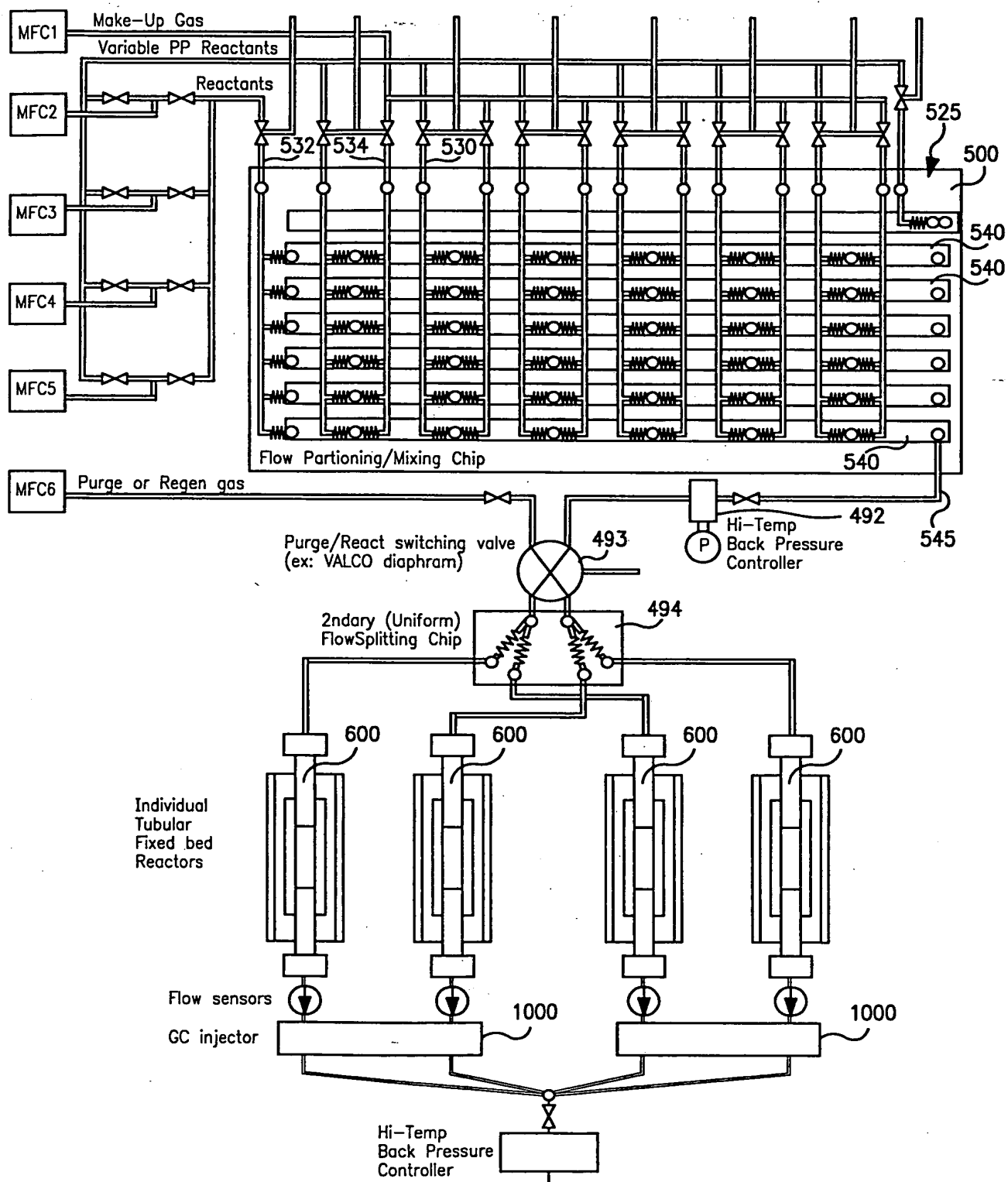


FIG. 5C

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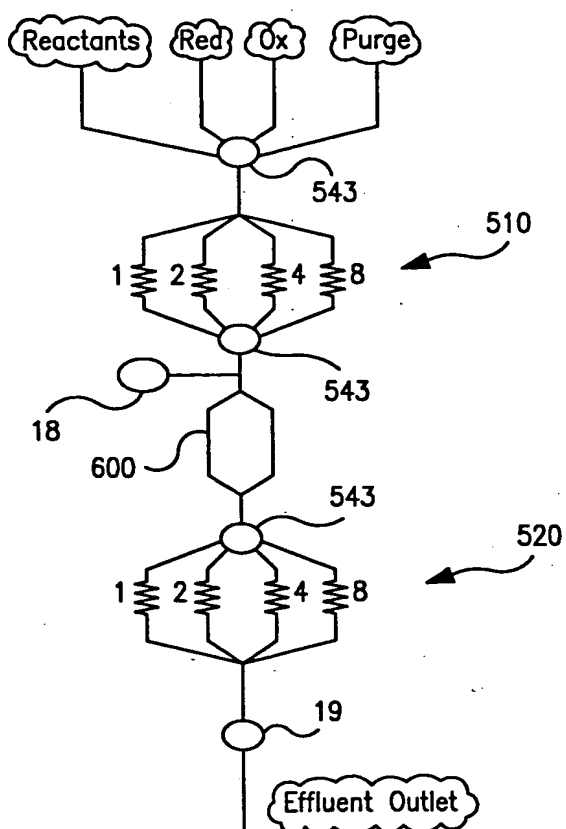


FIG. 6

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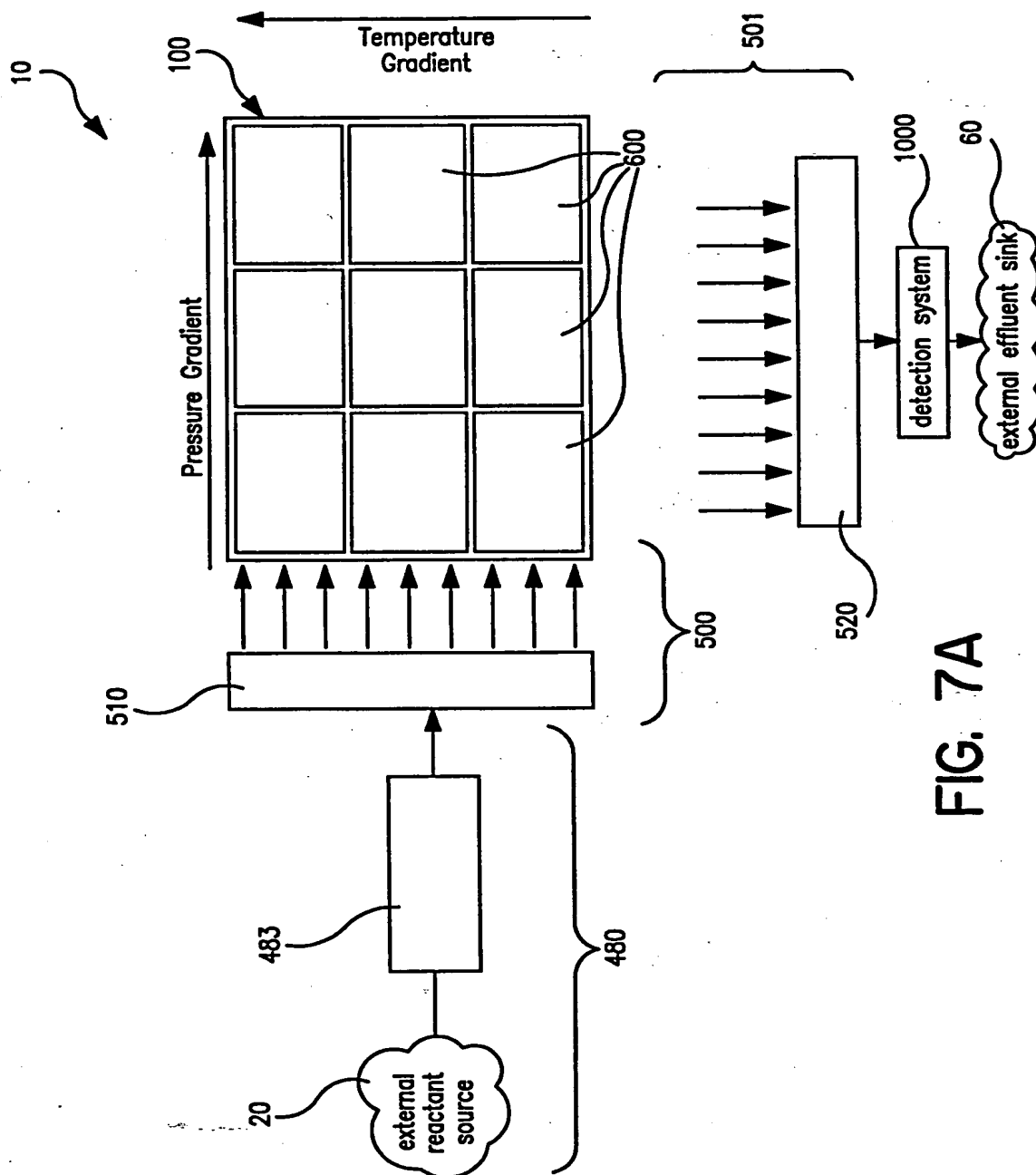


FIG. 7A



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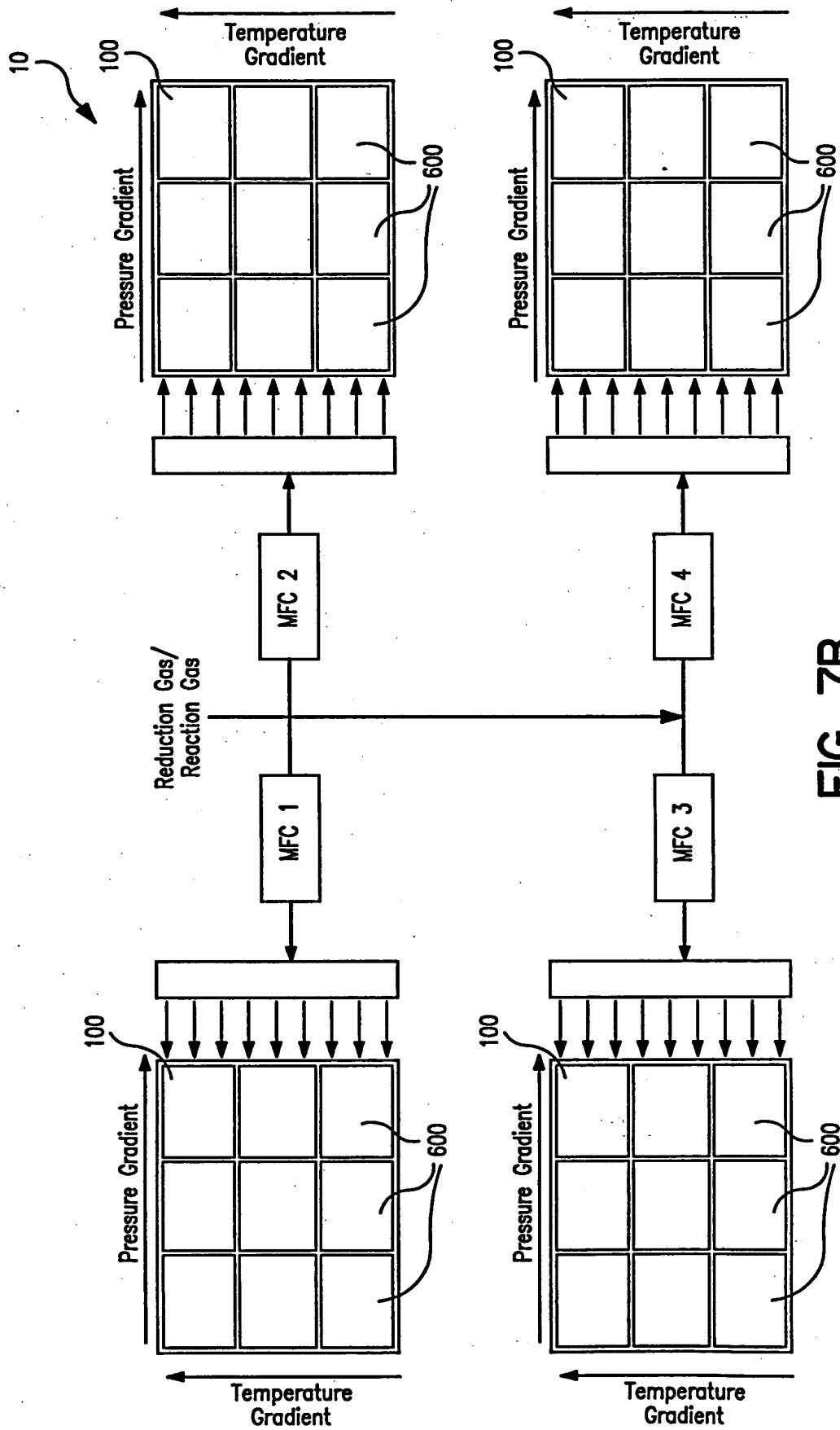


FIG. 7B

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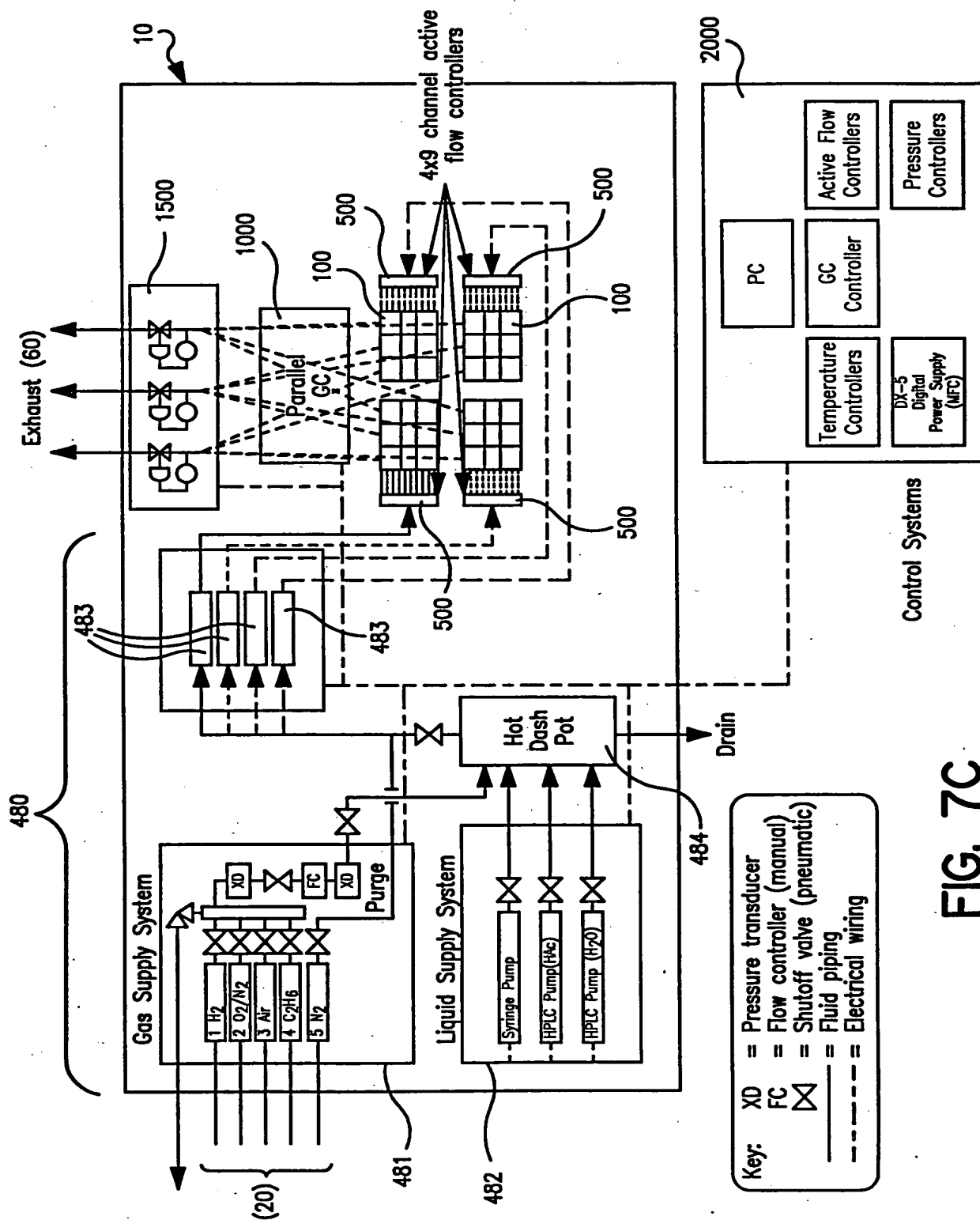


FIG. 7C

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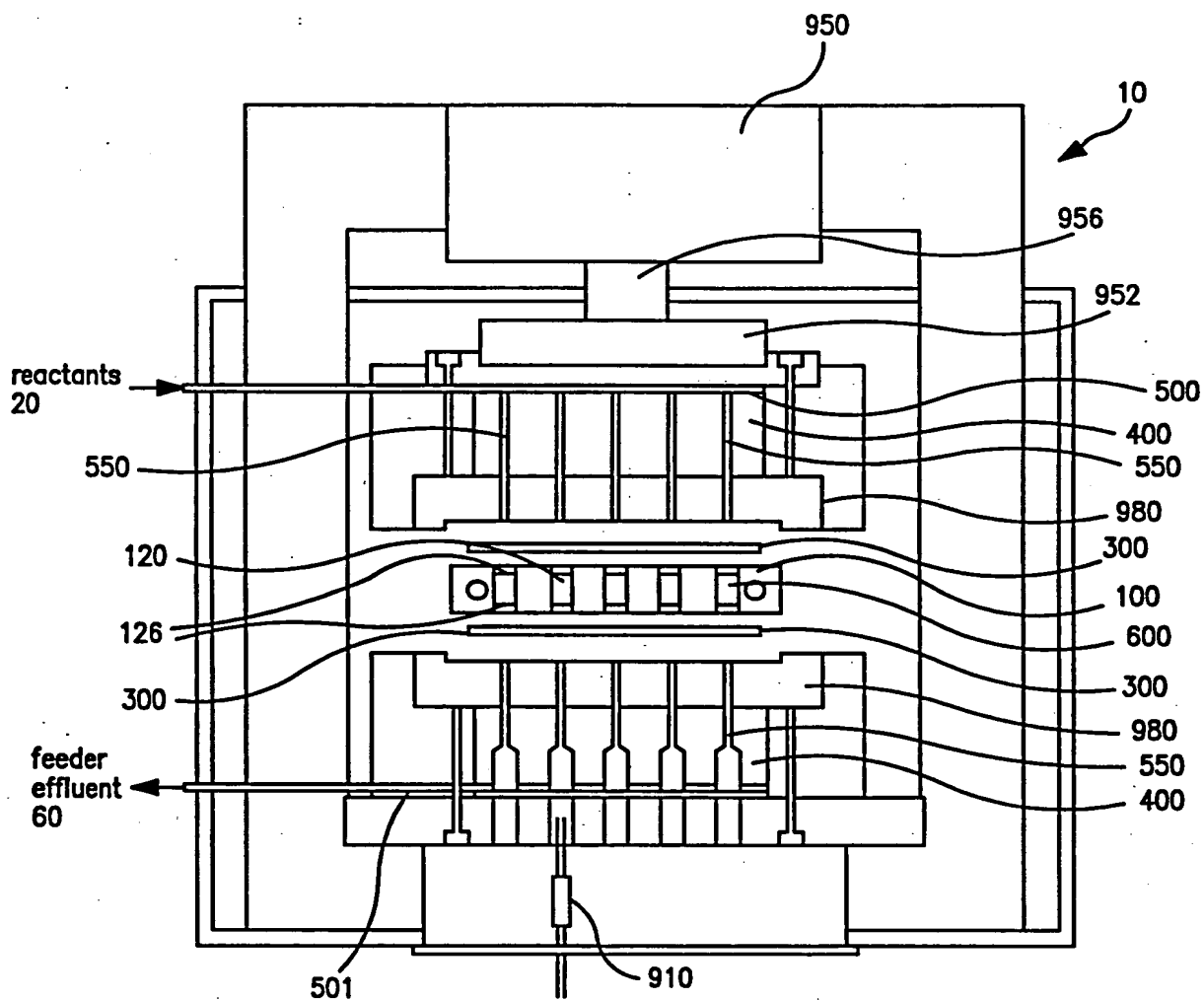


FIG. 8A

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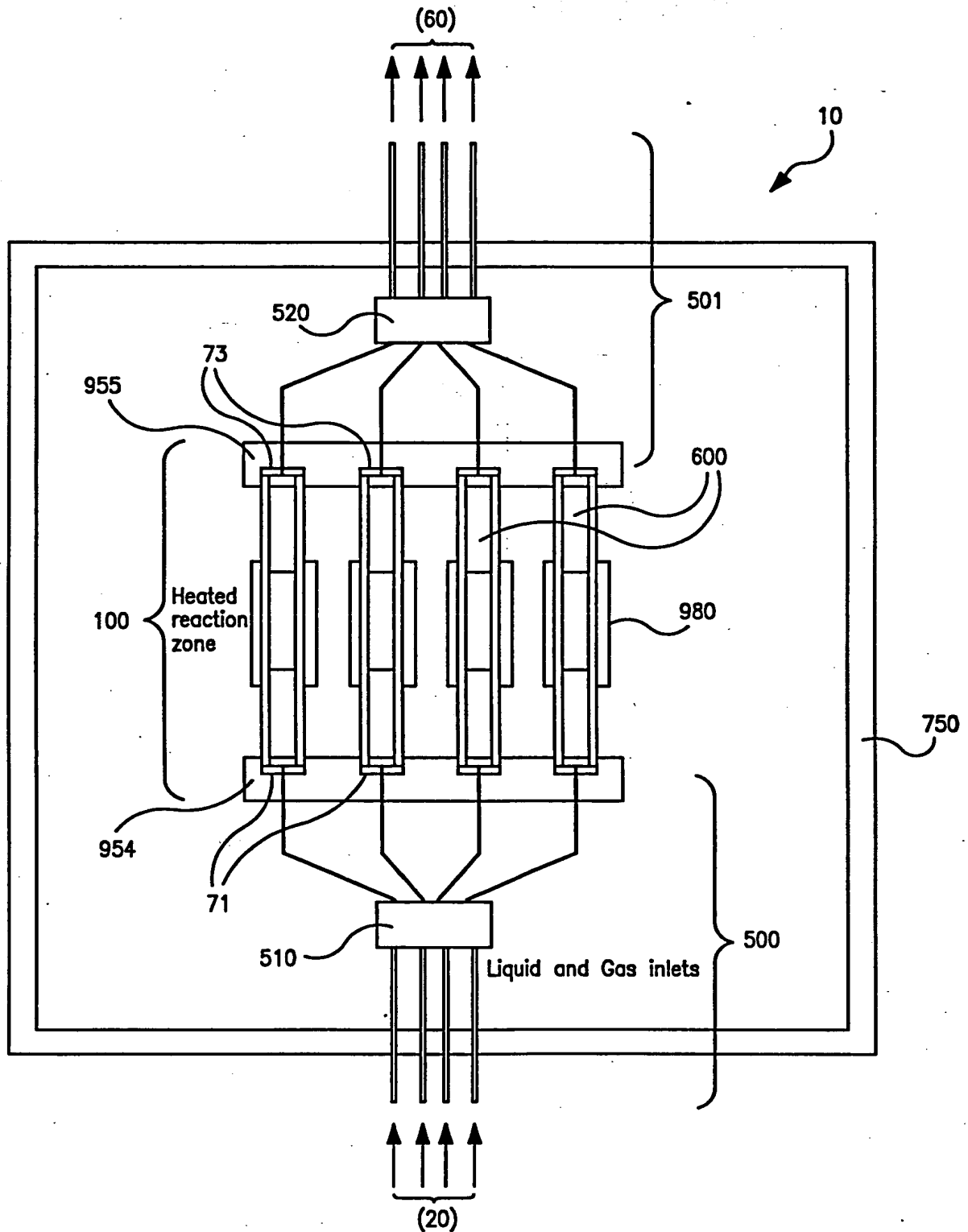


FIG. 8B

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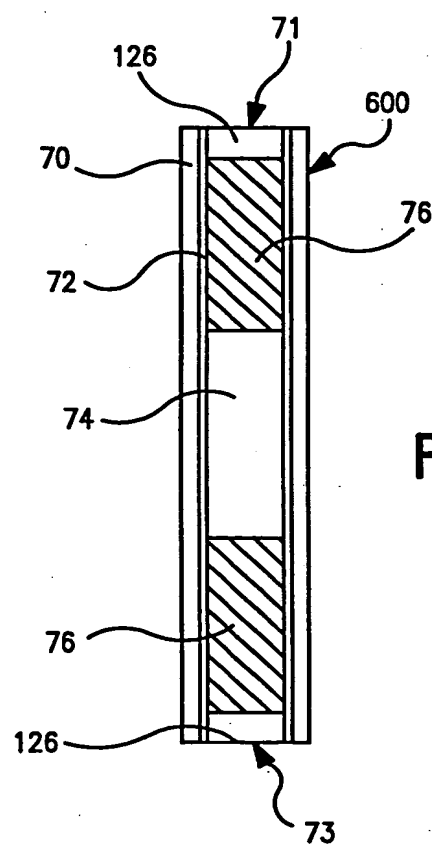


FIG. 8C

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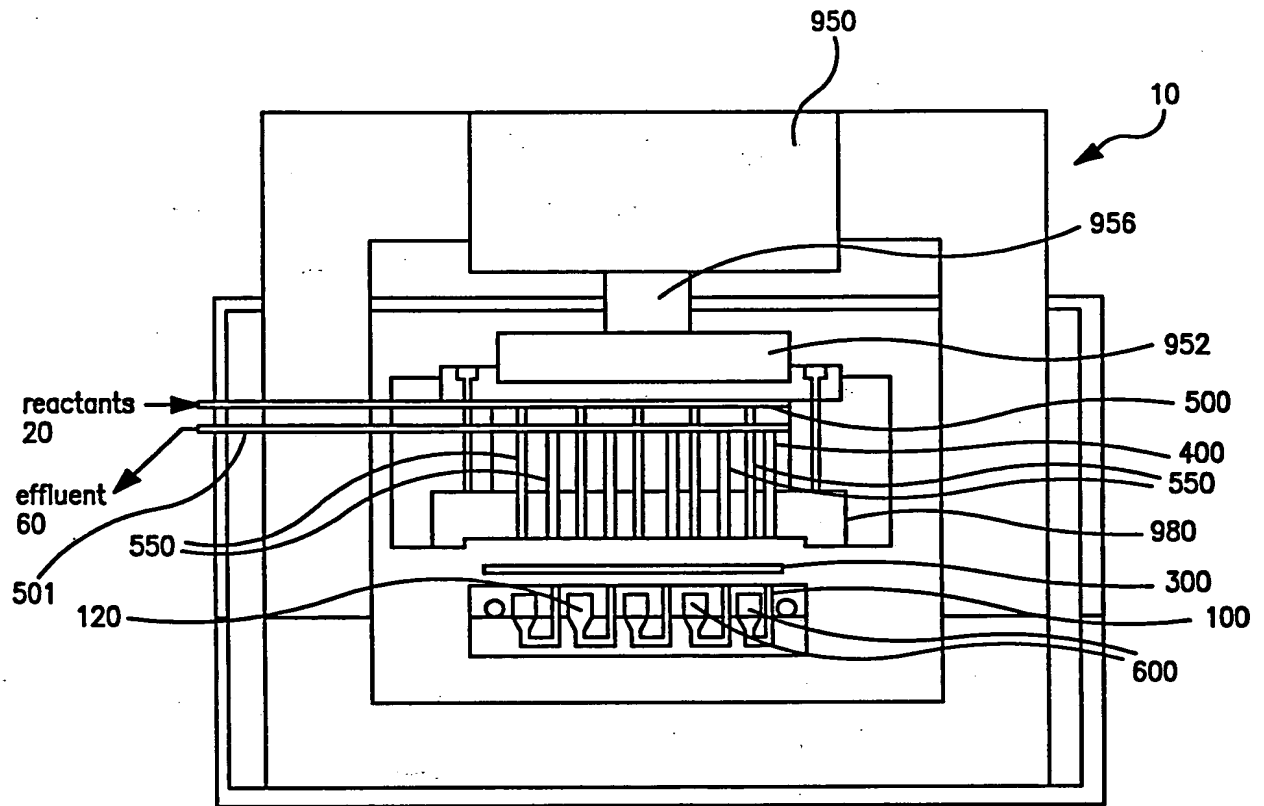


FIG. 8D

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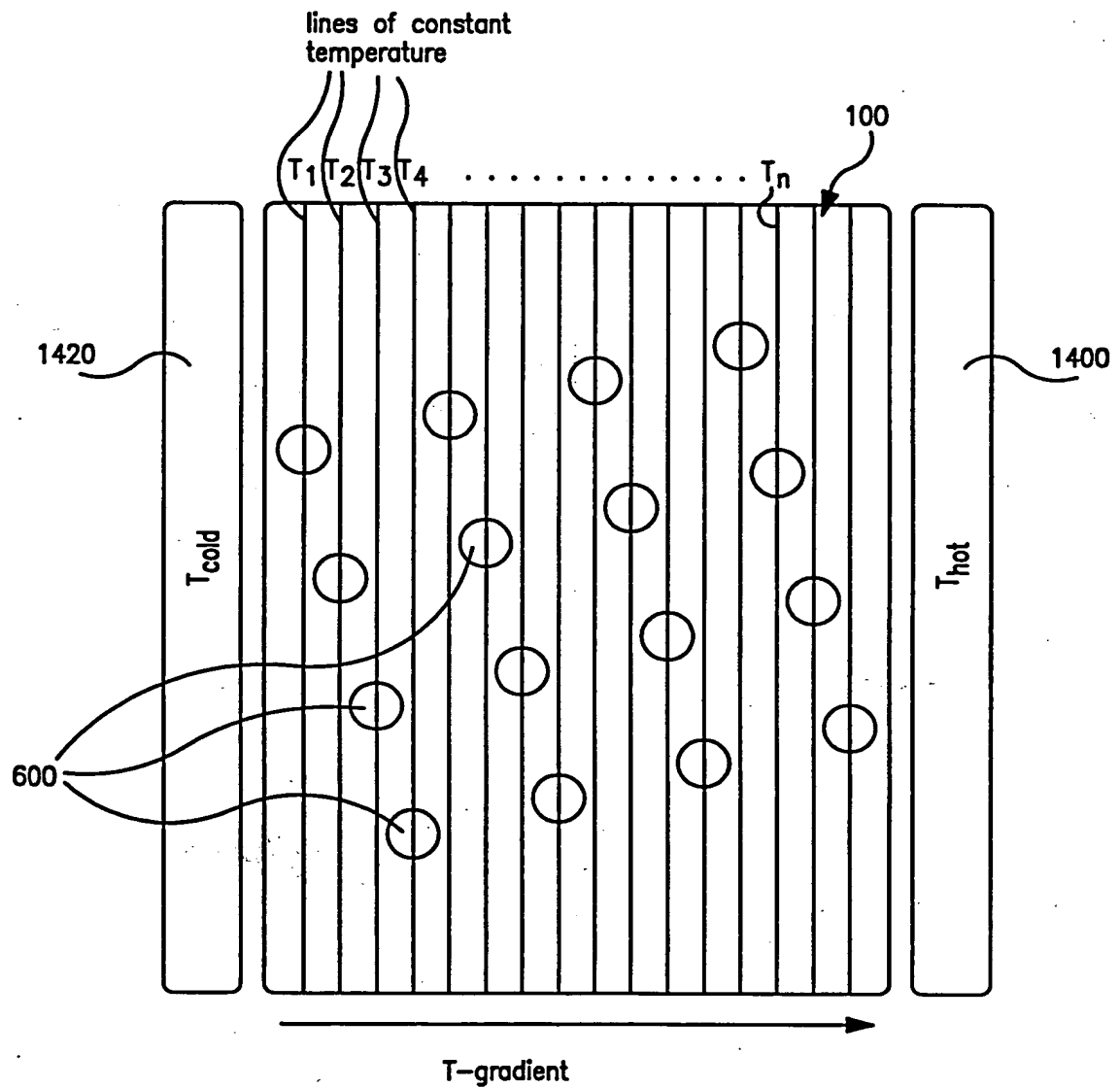


FIG. 8E

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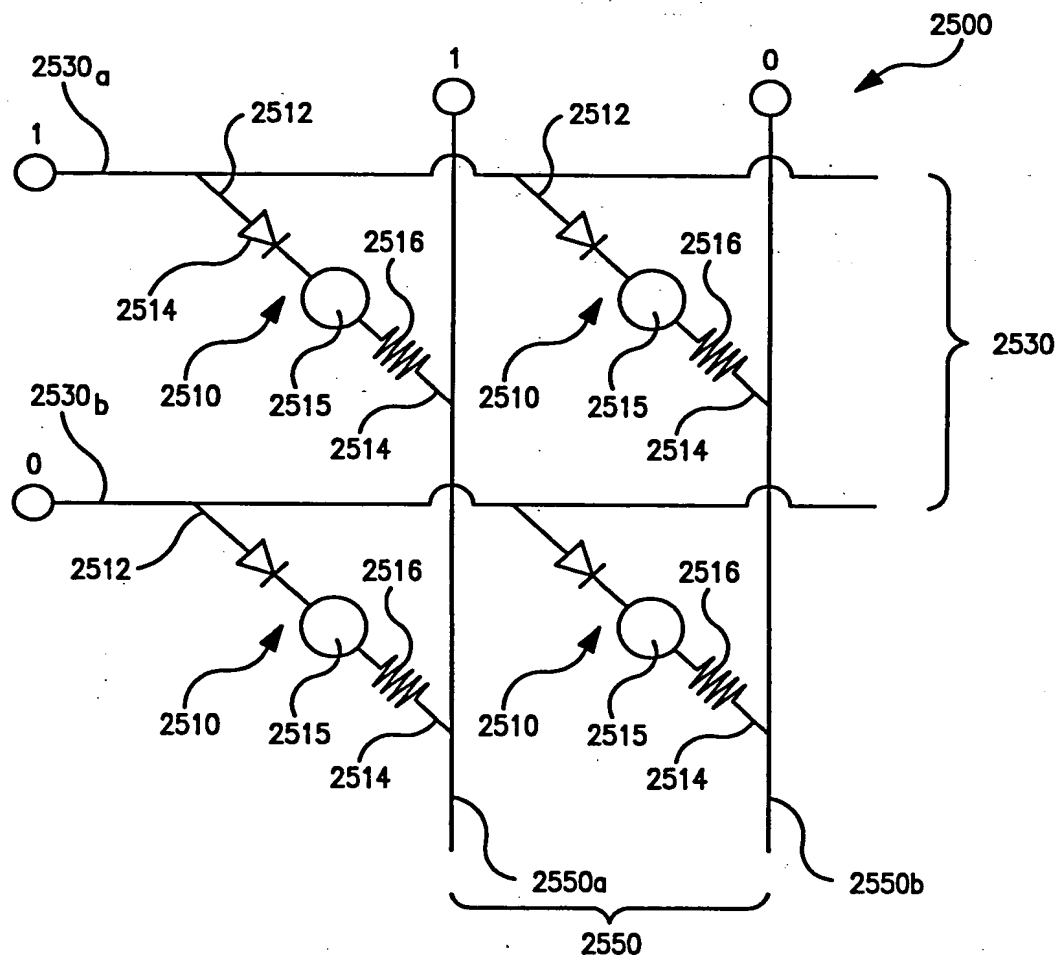


FIG. 9A



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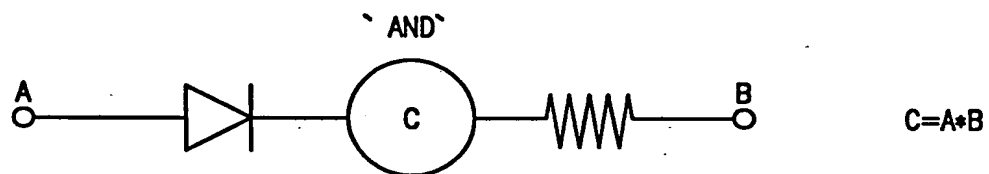
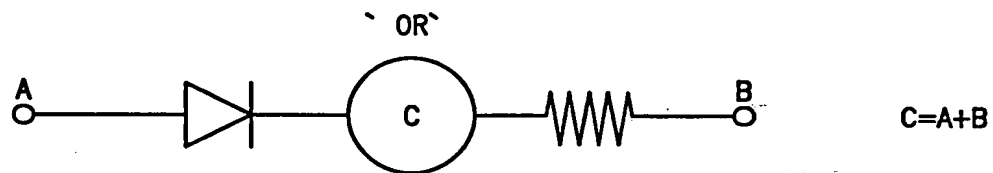


FIG. 9B

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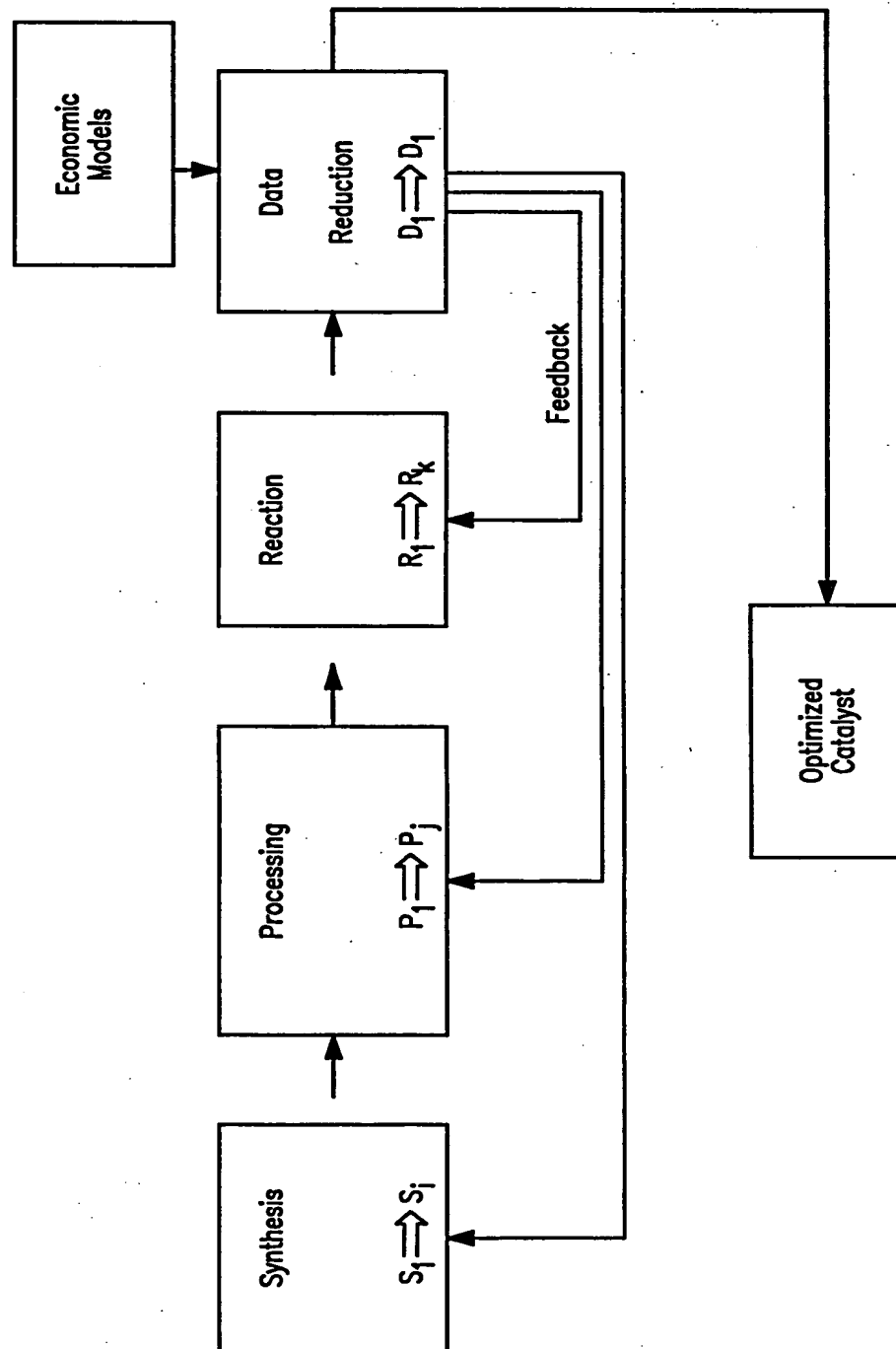


FIG. 10A

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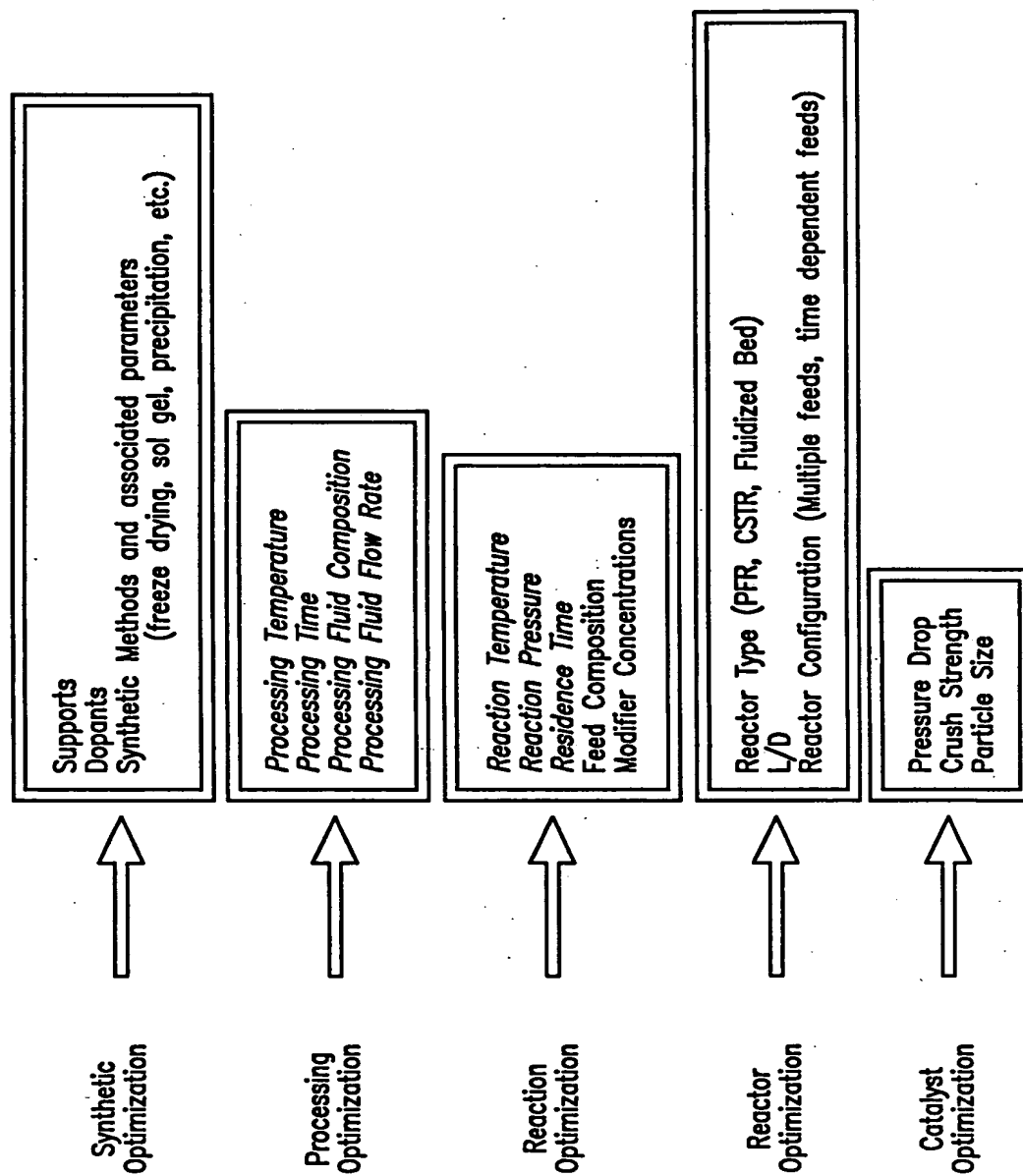


FIG. 10B

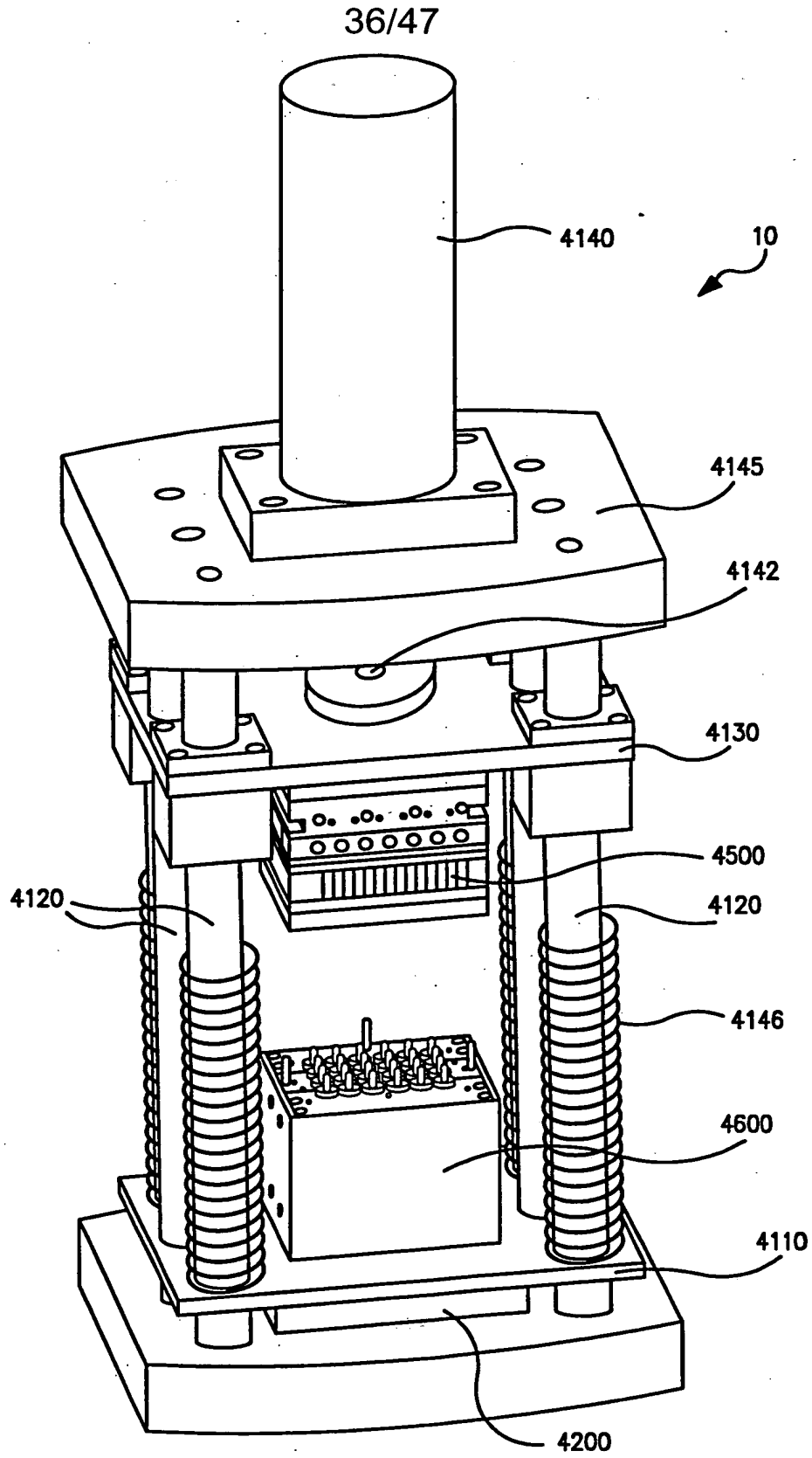
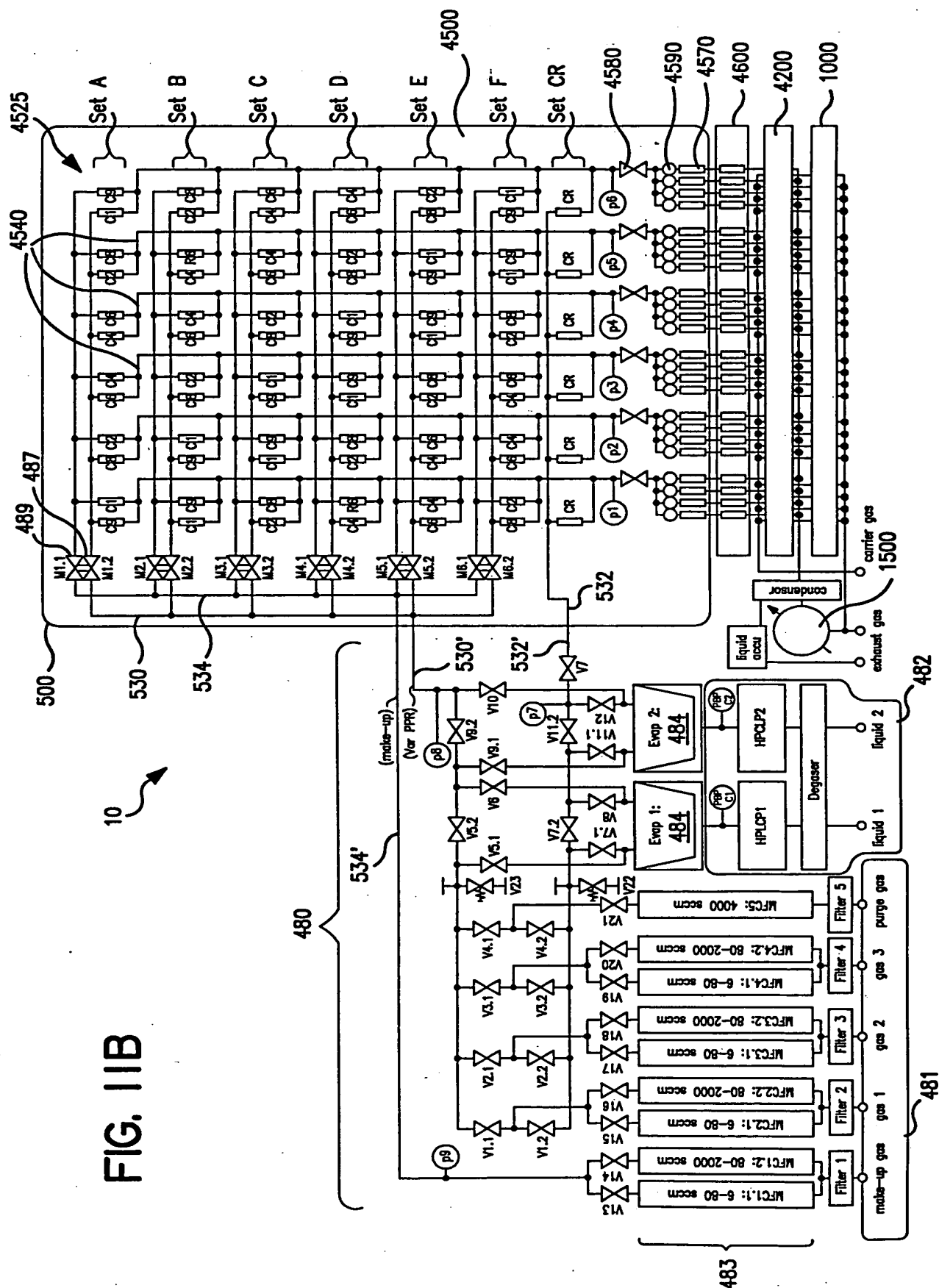


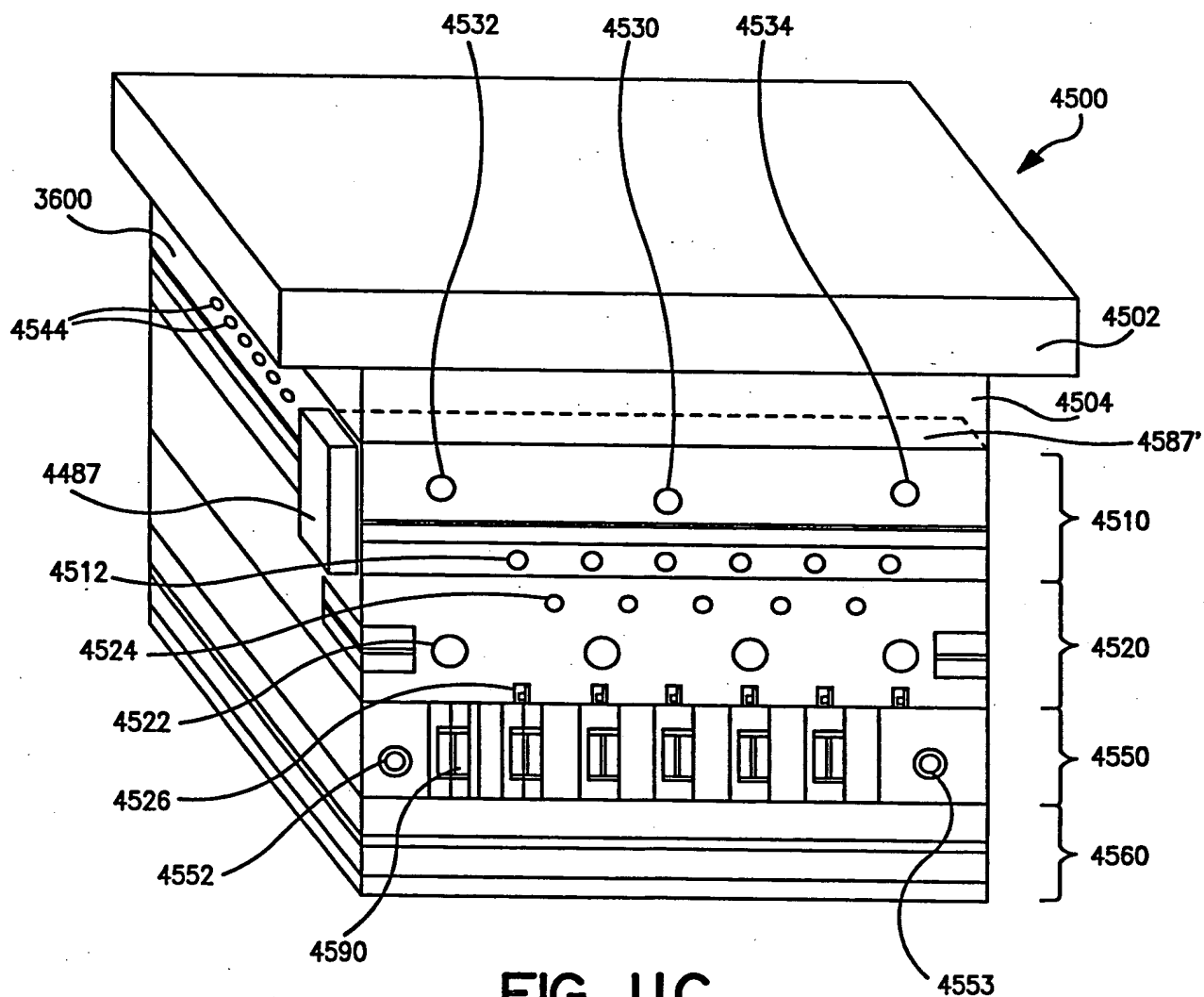
FIG. 11A

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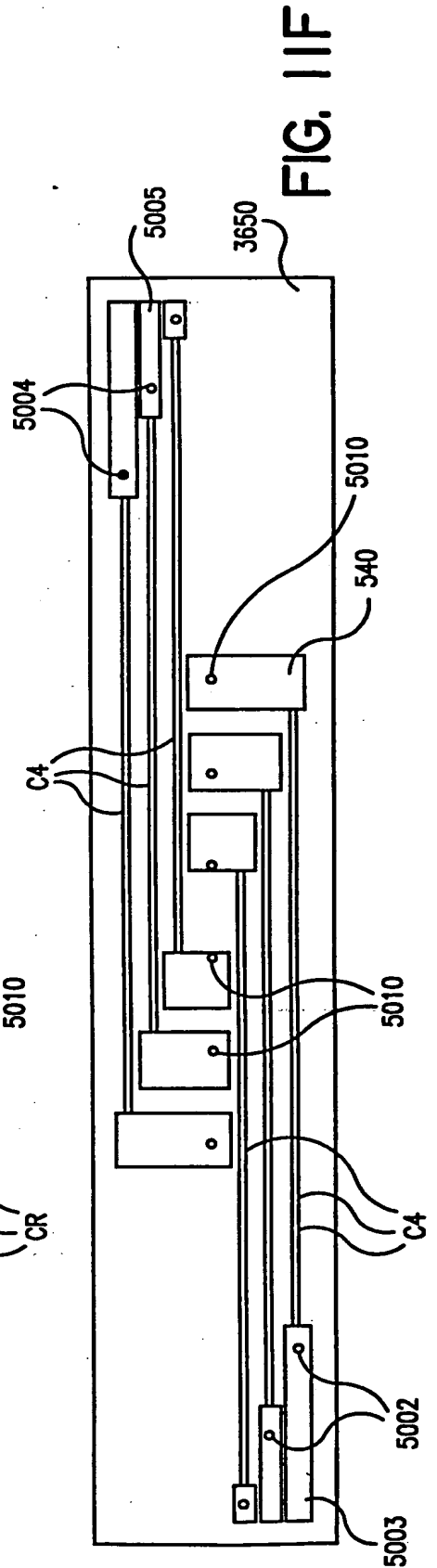
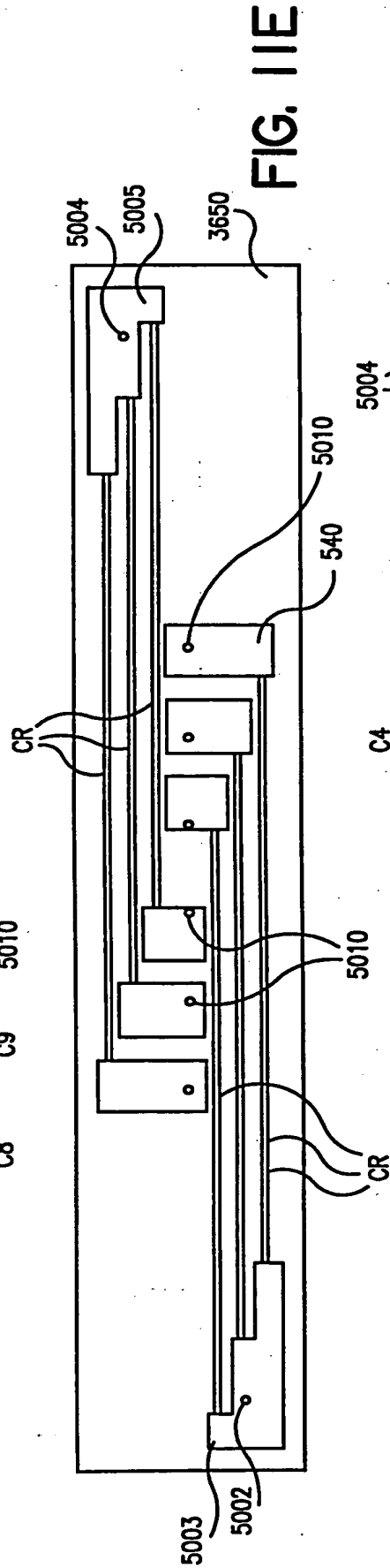
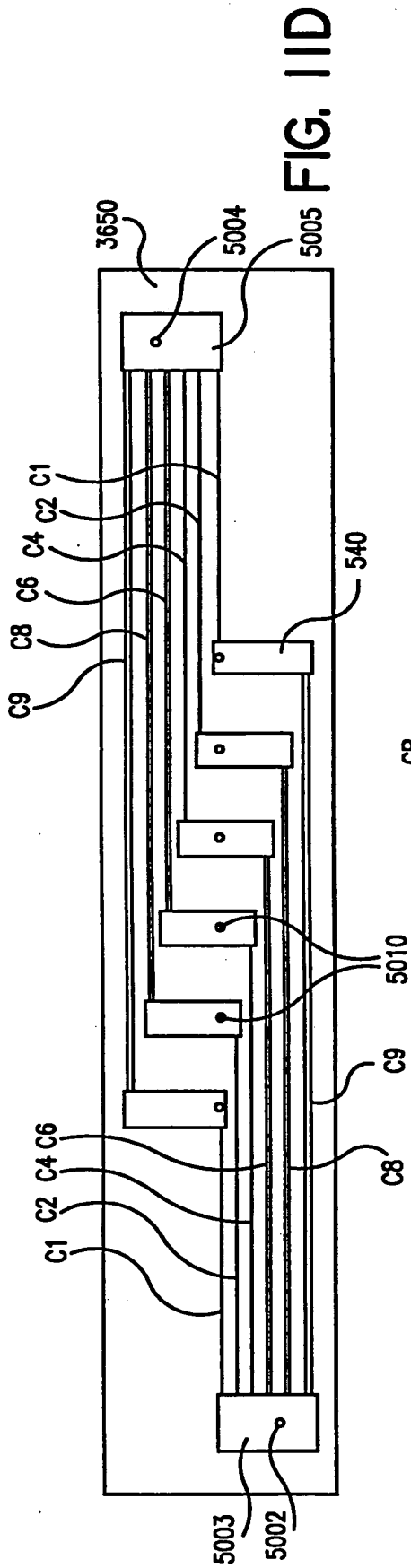
FIG. 11B



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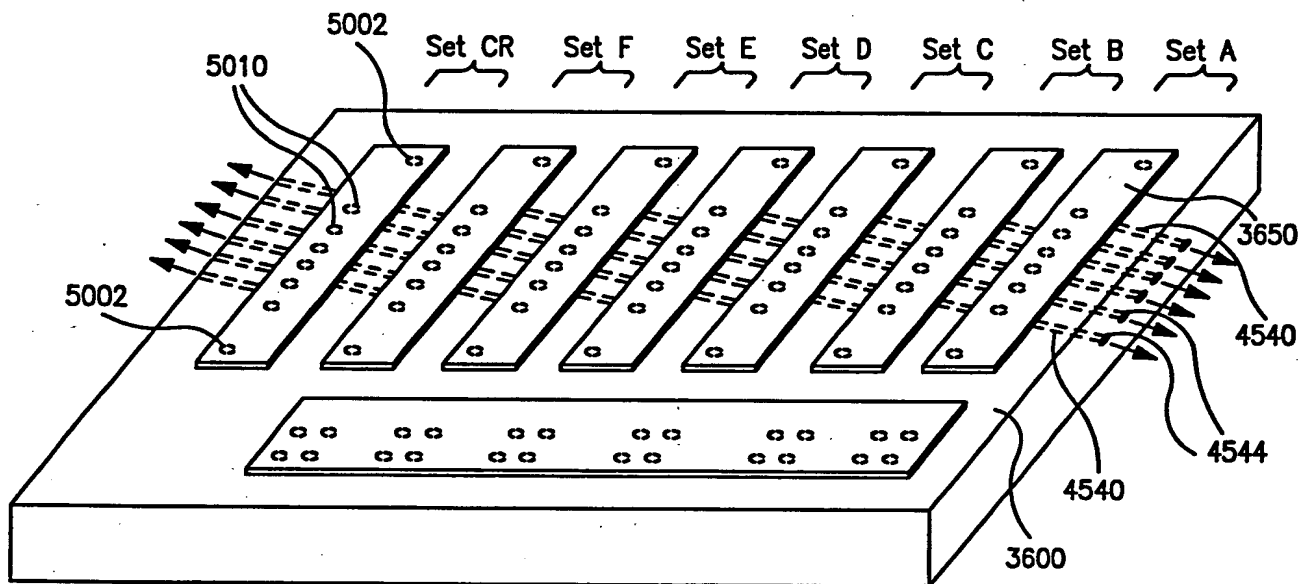


FIG. 11G



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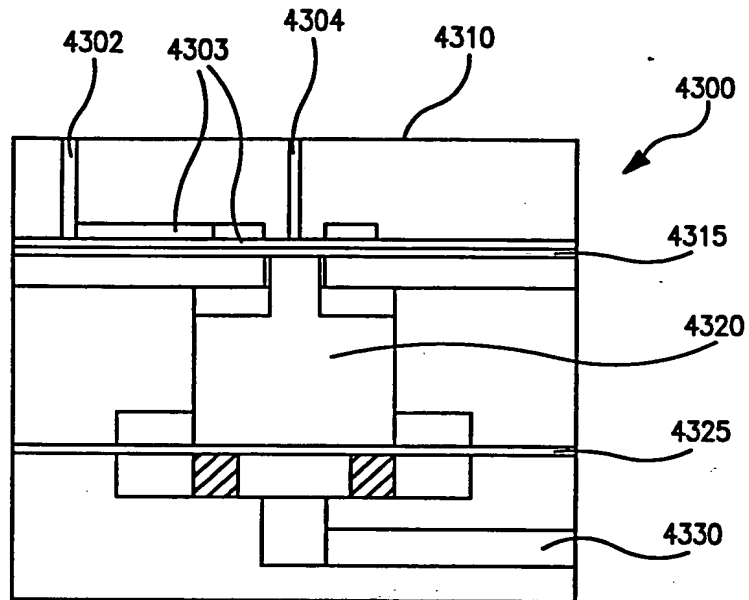


FIG. 11H

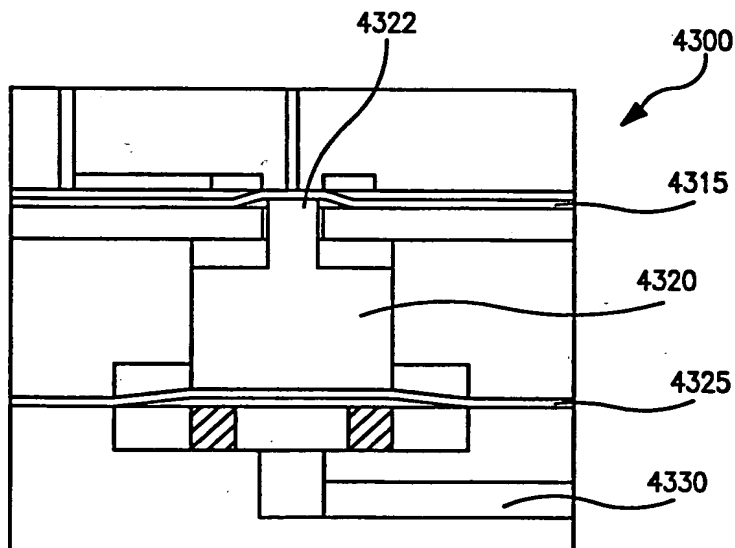


FIG. 11I

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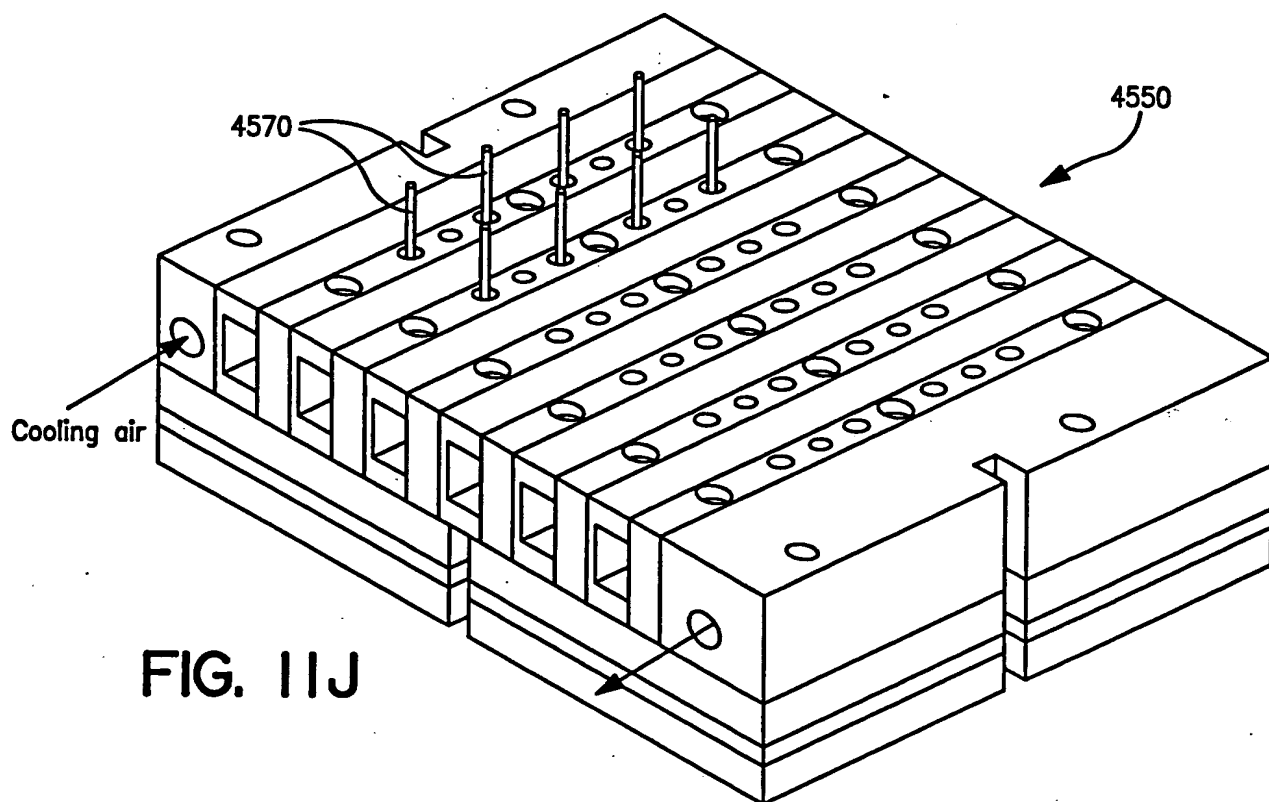


FIG. 11J

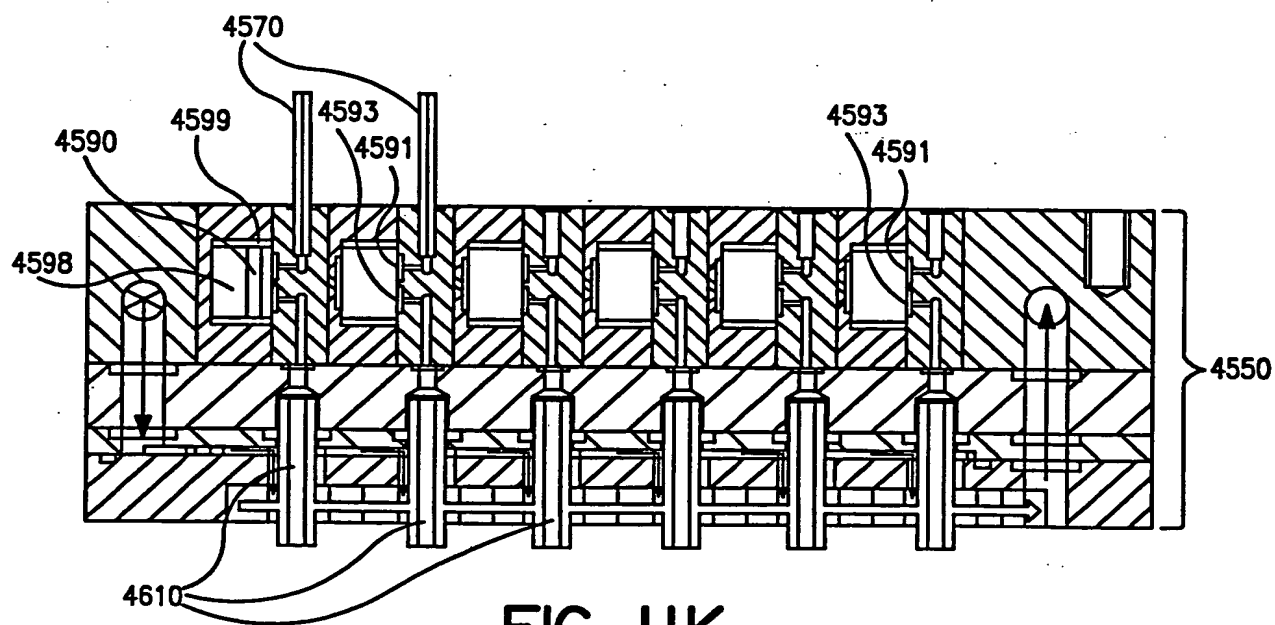
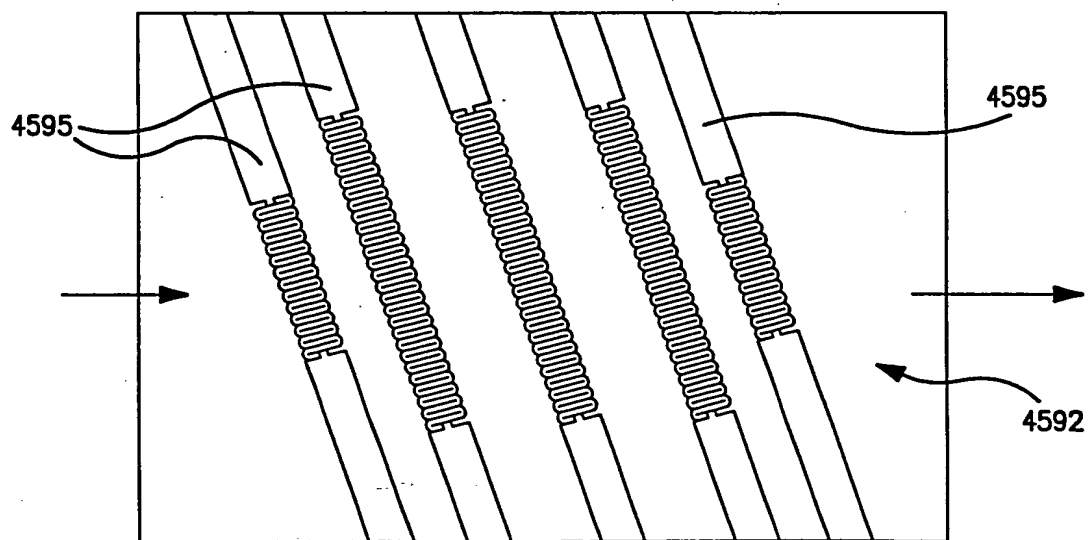
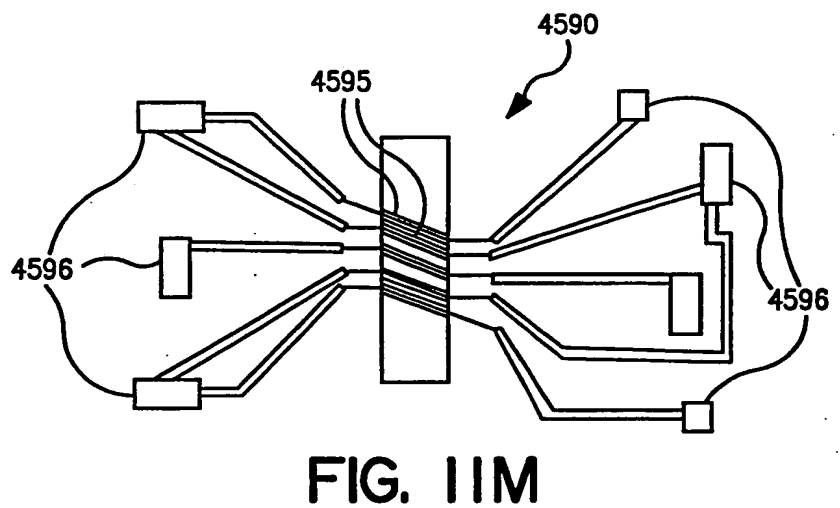
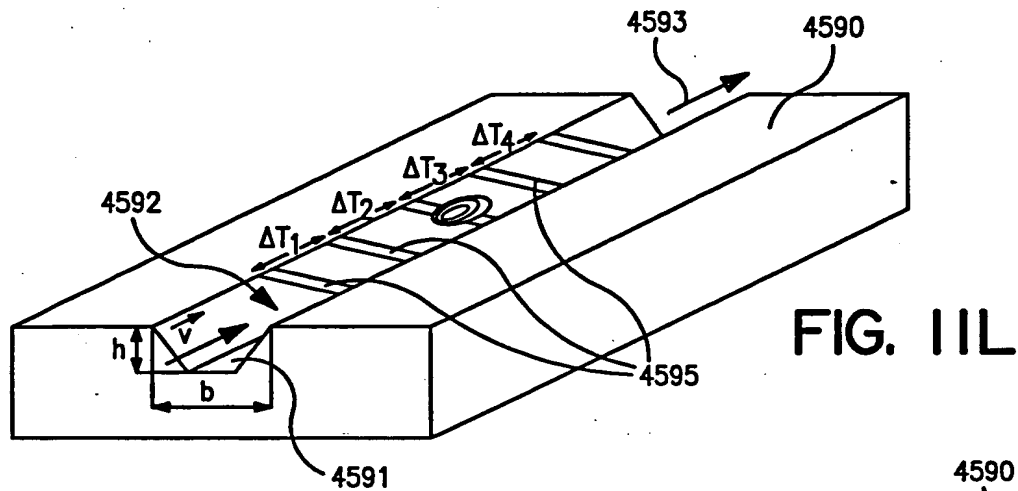


FIG. 11K

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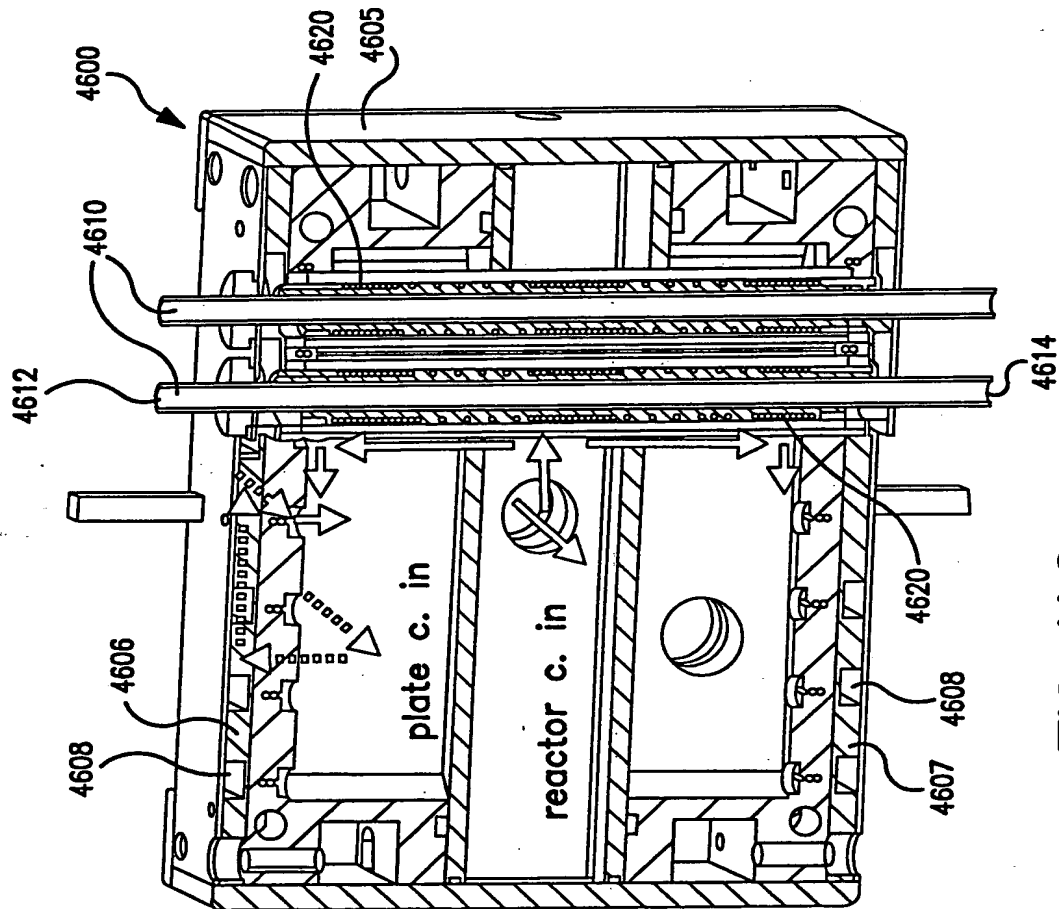
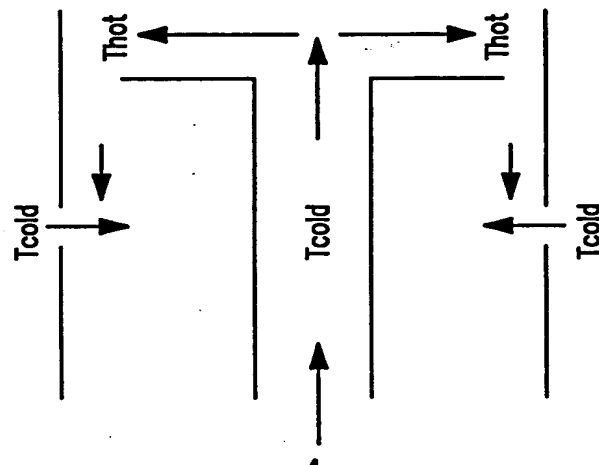


FIG. 110



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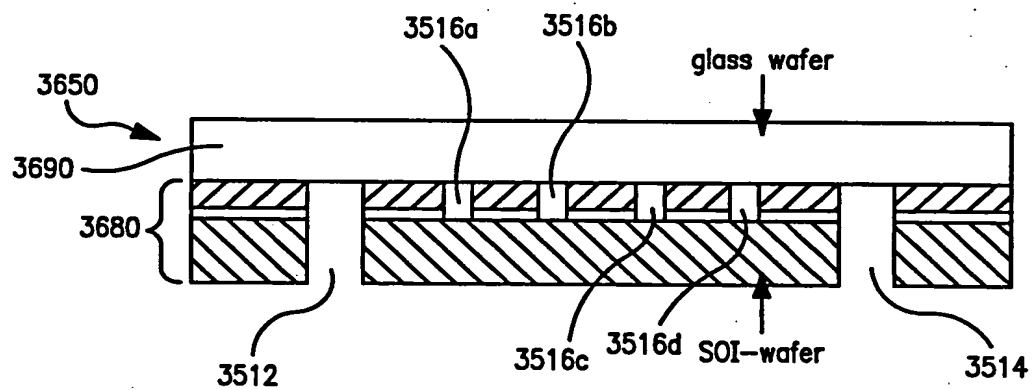


FIG. 12A

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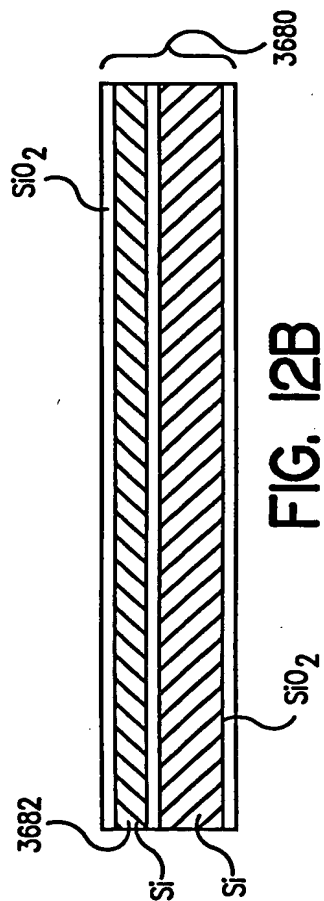


FIG. 12C

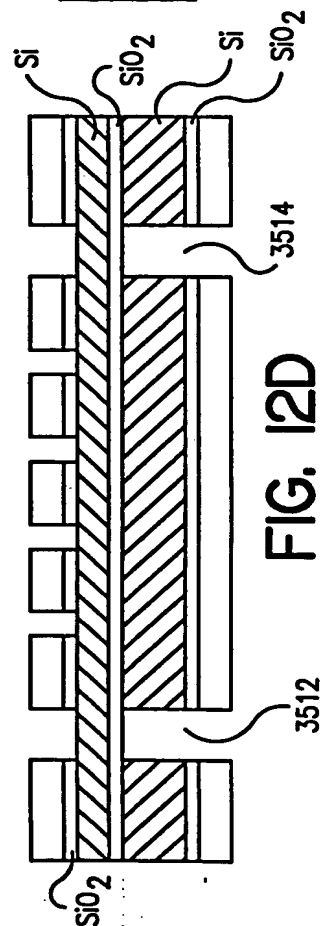
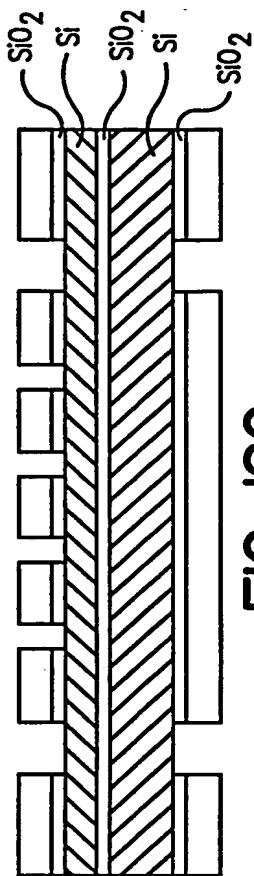
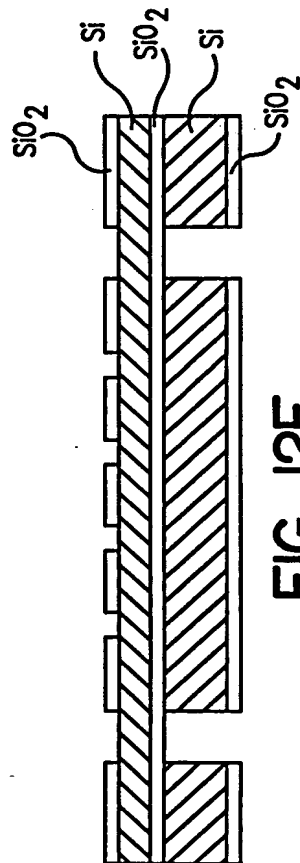


FIG. 12E



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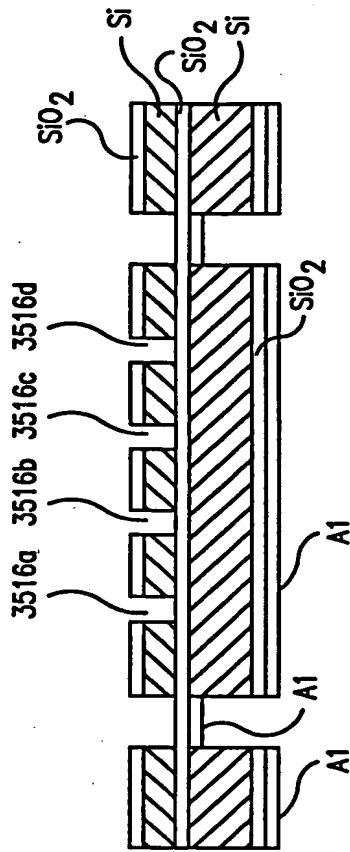


FIG. 12G

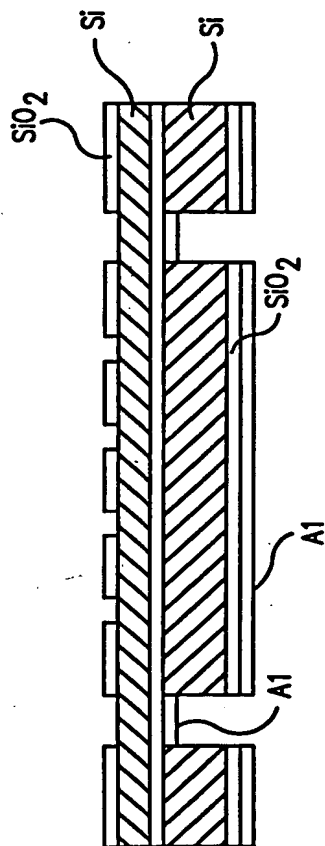


FIG. 12F

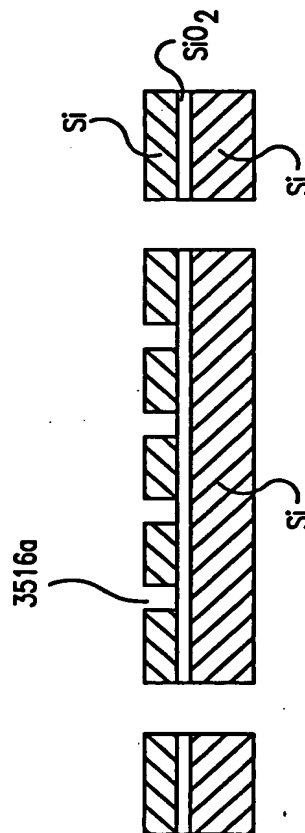


FIG. 12H

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